Project SPRUCE sought to increase employability of insurance claimants who seemed likely to exhaust their benefit rights without definite prospects of finding work. These persons were seen to be in need of special services because of some remediable inadequacy or problem but ineligible for the various programs intended primarily for the hardcore disadvantaged. Counseling, testing, job referral, search plan assistance, and training were among the extra services used. A test group of 482 claimants in their 13th to 19th week of benefit status was compared with a similar control group of 542 between April and December 1970 in Buffalo, New York. There is indication of a clear and enduring effect on post-SPRUCE employment status. At the end of a six month followup interval 55 0/0 of the experimental group were employed, compared with 46 0/0 of the control group. It cannot be shown with certainty, however, that SPRUCE reduced the duration of benefits. (MS)
Project SPRUCE
Special Program of Rehabilitation for Unemployment Compensation Exhaustees
Volume 1. Final Report

NEW YORK STATE DEPARTMENT OF LABOR
Division of Research and Statistics
State Office Building Campus
Albany, New York
This report was prepared for the Manpower Administration, U.S. Department of Labor, under research and development contract No. 82-34-69-45. Since contractors conducting research and development projects under Government sponsorship are encouraged to express their own judgment freely, this report does not necessarily represent the official opinion or policy of the Department of Labor. The contractor is solely responsible for the contents of this report.

Acknowledgments

Project SPRUCE was undertaken by what was then the Division of Employment of the New York State Department of Labor under contract with the Manpower Administration of the United States Department of Labor.

Many individuals have contributed, in varying degree, to the development and completion of this project. The authors are especially grateful for the counsel of Dr. Charles W. Cole and Dr. Eugene R. Oetting of the Rocky Mountain Behavioral Science Institute, who served as consultants in the planning and design of the Project and the preparation of the final report. They also contributed to the statistical analysis presented in this study.

The authors are indebted to Alfred S. Mask—Upstate Area Director for Unemployment Insurance Operations—for his active support of the Project at every stage; to the Project staff leaders: Lewis M. Bell, who provided overall staff supervision; Samuel Sperrazza, who served as research and procedures specialist, and James Brady, who supervised the counseling and interviewing activities; and to the District Employment Security Supervisors: Ernest Skeels and Douglas L. Winokur, who cooperated in assigning members of their staff to the Project.

Thanks are also due to Arthur Hyams of the Unemployment Insurance Service, Manpower Administration, who offered many valuable suggestions during the course of the Project.
Project SPRUCE

Special Program of Rehabilitation for Unemployment Compensation Exhaustees

Volume 1. Final Report

STATE OF NEW YORK
Nelson A. Rockefeller, Governor

DEPARTMENT OF LABOR
Louis L. Levine, Industrial Commissioner
This report was prepared by
Murray Dorkin, Chief,
and Herman S. Solomon, Associate Research Analyst,
in the Office of Research and Evaluation,
Division of Research and Statistics

May 1973
Preface

Since the inception of the federal-state unemployment insurance system in 1935, ways have been proposed to Congress periodically to remodel and improve it to meet the changing needs of a changing economy. In 1968 a new program called Special Program of Rehabilitation for Unemployment Compensation Exhaustees (SPRUCE) was drafted, which could, it was thought, enable the system to better cope with the needs of insured workers who experience long-term unemployment.

In a period when employers were hard-pressed for workers—while, at the same time, many unemployed workers were collecting unemployment insurance (UI) benefits long enough to exhaust their benefit rights—it became essential to ask whether something needed to be done to better fit the exhaustee for reemployment. The proposition was put forward that the long-term UI claimant was entitled to be regarded as a "disadvantaged" person, either because of some undetected personal handicap to employment or because mandated priorities to serve other special groups of jobseekers kept the Employment Service from attending to his need.

To test this proposition, an Experimental and Development Project was authorized to determine the feasibility of identifying prospective exhaustees before exhaustion, ascertaining what kinds of handicaps they present, and measuring the effectiveness of special services in restoring them to the employed work force.

It was hoped that SPRUCE, because of the special and more intensive service it offered, would be effective in reducing the number of UI recipients who ultimately exhaust their benefits, and in increasing the number who subsequently maintain employment status. While our Project experience has yielded other instructive findings also, the major question that we have sought to answer is, What would be the impact of SPRUCE on the return to employment of potential UI exhaustees?

When the Project began, the economy was already slackening visibly, so that there was no longer the assurance that restoration of employability would mean restoration to employment. Because of this limitation on job placement, Project experience should be evaluated in terms of what SPRUCE can accomplish in a period of rising unemployment.

This report of the Project is presented in two volumes: the present one describing the Project and its principal findings, and a supplement containing a handbook on administrative problems and two manuals on operating procedures and on staff training.
Project SPRUCE
Fact Sheet

Operating Agency: New York State Department of Labor
State Office Campus, Building No. 12
Albany, New York 12201

Funding Agency: Manpower Administration—U.S. Department of Labor

Project Location: Buffalo, New York

Project Dates:
Phase I—Planning and Trial Run, August 18, 1969—March 28, 1970
Phase II—Full-scale operations, March 30—December 31, 1970
Phase III—Followup, January 4—September 30, 1971

Program Description: To determine and furnish extra employability services needed by unemployment insurance claimants who seem likely to exhaust their benefit rights, so as to help them take advantage of available job opportunities.

Statistical Data:

<table>
<thead>
<tr>
<th>Average weekly claimant load during intake period (3/4—9/4/70)</th>
<th>6,758</th>
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<tbody>
<tr>
<td>Number of claimants screened (certifying for 11th—18th week)</td>
<td>4,277</td>
</tr>
<tr>
<td>Number enrolled in Project</td>
<td>1,024</td>
</tr>
<tr>
<td>Test group (SSA numbers ending in even digit)</td>
<td>482</td>
</tr>
<tr>
<td>Control group (SSA numbers ending in odd digit)</td>
<td>542</td>
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<table>
<thead>
<tr>
<th>Employability classification at intake:</th>
<th>Job ready</th>
<th>Job ready</th>
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<tr>
<td>Not job ready</td>
<td>347</td>
<td>393</td>
</tr>
<tr>
<td>135</td>
<td>149</td>
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<table>
<thead>
<tr>
<th>Number receiving specified services beyond interviews</th>
<th>Test</th>
<th>Control</th>
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<tr>
<td>Counseling</td>
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<td>39</td>
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<td>Training</td>
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<tr>
<td>Vocational rehabilitation (medical)</td>
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<td>Other rehabilitation (educational)</td>
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<td>3</td>
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<td>Job-search assistance</td>
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<td>—</td>
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<tr>
<td>Job development</td>
<td>112</td>
<td>58</td>
</tr>
<tr>
<td>Job referral</td>
<td>219</td>
<td>184</td>
</tr>
<tr>
<td>Job placement</td>
<td>70</td>
<td>32</td>
</tr>
</tbody>
</table>

Termination status

| Exhausted benefit rights | 313 | 391 |
| Started work | 109 | 107 |
| Benefit year expired | 16 | 15 |
| Disqualified | 5 | 2 |
| Moved away, died, or unknown reason | 19 | 27 |
| Not terminated, still in training as of September 30, 1971 | 20 | — |

Number employed at followup intervals

| 3 weeks after termination | 184 | 169 |
| 13 weeks after termination | 180 | 191 |
| 26 weeks after termination | 183 | 186 |

Special Features:

Experimental scale for prediction of insurance exhaustion.
Use of Social Security data for longitudinal earnings followup.
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>iii</td>
</tr>
<tr>
<td>Fact Sheet</td>
<td>iv</td>
</tr>
<tr>
<td>Introduction</td>
<td>vii</td>
</tr>
<tr>
<td>Bibliographic Data Sheet</td>
<td>viii</td>
</tr>
<tr>
<td>Summarv</td>
<td>1</td>
</tr>
<tr>
<td>Project Description</td>
<td>4</td>
</tr>
<tr>
<td>Nature of the Problem</td>
<td>4</td>
</tr>
<tr>
<td>Objectives and Means</td>
<td>4</td>
</tr>
<tr>
<td>Plan and Design</td>
<td>5</td>
</tr>
<tr>
<td>Scope and Format</td>
<td>5</td>
</tr>
<tr>
<td>Limitations</td>
<td>6</td>
</tr>
<tr>
<td>Primary Analytic Procedures</td>
<td>7</td>
</tr>
<tr>
<td>Statistical Adequacy</td>
<td>9</td>
</tr>
<tr>
<td>Comparability: Test and Control</td>
<td>9</td>
</tr>
<tr>
<td>Followup Response Rates</td>
<td>12</td>
</tr>
<tr>
<td>Relative Impact of the SPRUCE System</td>
<td>14</td>
</tr>
<tr>
<td>Characteristics of Test Claimants</td>
<td>14</td>
</tr>
<tr>
<td>Relative Incidence of Services</td>
<td>14</td>
</tr>
<tr>
<td>Test Group Services and Employment</td>
<td>15</td>
</tr>
<tr>
<td>Test Group Termination Status and Employment</td>
<td>16</td>
</tr>
<tr>
<td>Test Group Services and UIB Exhaustion</td>
<td>16</td>
</tr>
<tr>
<td>Overall Exhaustion Outcomes: Test vs. Control</td>
<td>17</td>
</tr>
<tr>
<td>Overall Employment Outcomes: Test vs. Control</td>
<td>18</td>
</tr>
<tr>
<td>Interviewing and Counseling Processes in Client Evaluation</td>
<td>20</td>
</tr>
<tr>
<td>Physical Disability</td>
<td>21</td>
</tr>
<tr>
<td>Emotional Disability</td>
<td>21</td>
</tr>
<tr>
<td>Attitudinal Interference with Reemployment</td>
<td>21</td>
</tr>
<tr>
<td>Unrealistic Attitudes</td>
<td>21</td>
</tr>
<tr>
<td>Types of Interfering and Unrealistic Attitudes</td>
<td>21</td>
</tr>
<tr>
<td>Alcohol or Drug Problem</td>
<td>22</td>
</tr>
<tr>
<td>State Conditions: Environmental and Personal</td>
<td>22</td>
</tr>
<tr>
<td>Interpersonal Relationships</td>
<td>22</td>
</tr>
<tr>
<td>“Success Not Apparent” Group</td>
<td>22</td>
</tr>
<tr>
<td>Critical Incidents</td>
<td>22</td>
</tr>
<tr>
<td>Factors Favoring Employment</td>
<td>23</td>
</tr>
<tr>
<td>Prediction of Insurance Exhaustion</td>
<td>24</td>
</tr>
<tr>
<td>Costs and Benefits</td>
<td>27</td>
</tr>
<tr>
<td>Definitive Costs</td>
<td>27</td>
</tr>
<tr>
<td>Initial Benefits</td>
<td>27</td>
</tr>
<tr>
<td>Longitudinal Benefits</td>
<td>28</td>
</tr>
<tr>
<td>Project Results: Implications</td>
<td>29</td>
</tr>
</tbody>
</table>
Percent Distribution of Earnings of SPRUCE Claimants before Unemployment ........................................ 9
Characteristics of SPRUCE Claimants .................................................................................................. 10
Reason for Becoming Unemployed and Outcome Variables for all SPRUCE Claimants
(Test and Control) ......................................................................................................................... 11
Comparative Distributions of Reasons for Becoming Unemployed .................................................. 11
Comparative Analyses of Test and Control Group Differences on Basic Characteristics .................. 12
Summary of Followup Response Rates ............................................................................................. 12
SPRUCE Phase II Followup Activity .................................................................................................. 13
Employment Status of SPRUCE Claimants a 26-Week Followup by Project Group and Selected
Services Received .................................................................................................................................. 15
Significant Relationships Between Services Provided Test Claimants and Exhaustion .................. 17
Employment Outcomes of Test and Control Groups at Followup Periods ...................................... 18
Summary of Results. The Relationship of Interview Checklist Notes to Outcome ............................. 23
Distribution of SPRUCE Claimants by Number of Regular Unemployment Insurance Benefits and
Extended Benefit Checks Received, as of April 25, 1971 .................................................................. 27

Chart
Rate of Employment at Followup Intervals ......................................................................................... 19

Appendix A: Tables .......................................................................................................................... 31-52
1. Characteristics of SPRUCE Enrollees by Initial Employability Rating and Termination Status .... 33
   A. Test Group ................................................................................................................................. 33
   B. Control Group .......................................................................................................................... 36

2. Employment Status at Three Followup Intervals of SPRUCE Test and Control Claimants by
   Services Received ........................................................................................................................... 39
   A. 3-Week Followup ...................................................................................................................... 39
   B. 13-Week Followup .................................................................................................................... 40
   C. 26-Week Followup .................................................................................................................... 41

3. Employment Status Of SPRUCE Test and Control Claimants by Services Received, Job Readiness,
   and Claim Termination ................................................................................................................. 42

4. Employment Status at Three Followup Intervals of SPRUCE Claimants Who Received Job Search
   Assistance .......................................................................................................................................... 43
   A. 3-Week Followup ...................................................................................................................... 43
   B. 13-Week Followup .................................................................................................................... 44
   C. 26-Week Followup .................................................................................................................... 45

5. Employment Status of SPRUCE Claimants at Three Followup Intervals by Claimant Characteristics 46
   A. 3-Week Followup ...................................................................................................................... 47
   B. 13-Week Followup .................................................................................................................... 49
   C. 26-Week Followup .................................................................................................................... 52

Appendix B: Followup Forms ............................................................................................................. 55-59
Introduction

Project SPRUCE was conducted in Buffalo, New York. After a period of planning and a trial run, the main operation began in April and continued through December 1970. The purpose of the Project was to test the proposition that claimants who seem likely to exhaust their unemployment insurance (UI) benefit rights are in need of extra services to enable them to take advantage of job opportunities.

The reasoning was that workers with enough recent covered employment to qualify for UI benefits, but who remain unemployed until their benefit rights are exhausted, may be having difficulty in obtaining jobs because of some remediable inadequacy or problem. Such claimants may need training, guidance, relocation, medical help, or other rehabilitative service to enable them to obtain new jobs. However, being recently employed, they may be overlooked by the various programs intended primarily for the hard-core disadvantaged.

The SPRUCE concept originated during the period of tight labor-market conditions when employers were hard-pressed for workers, and manpower programs to make various disadvantaged groups more employable were flourishing. Despite the fact that the Project began during an economic recession which nullified the major premise of plentiful job opportunities, it undertook to determine whether claimants beyond their 13th week of UI benefits could be helped to become reemployed before exhausting their benefit rights (26 weeks) or, at any rate, sooner than similar claimants not receiving extra help.

The 1,024 UI claimants selected for the Project were divided, according to whether their Social Security numbers were odd or even, into a Test group of 482 and a Control group of 542. The selection was limited to claimants in their 13th to 19th week of benefit status. In order to allow sufficient time for initiating SPRUCE services before exhaustion of benefits, only those certifying up to the 19th benefit check at time of enrollment were accepted. From among claimants in their 13th to 19th week of benefit status, selection was made of those over 21 and under 65 years of age who did not have definite prospects of jobs and who were not involved in special placement arrangements with trade unions.

The Project Office was staffed from both the Employment Insurance Bureau and the State Employment Service (ES). It handled the weekly UI claims processing for both the Test and the Control groups. It also provided SPRUCE-enriched ES services to the Test group claimants. Control group claimants, on the other hand, continued to report to regular ES Local Offices for the usual ES services.

Post-SPRUCE followup for subsequent employment-status information was done by the Project Office on claimants in both groups, at intervals of 3 weeks, 13 weeks, and 26 weeks after claim termination or placement or completion of special service. The followups were conducted through mail questionnaires. Nonrespondents were contacted by telephone and home visits as needed. The overall response rates were very high—over 90 percent for each followup interval.
Project SPRUCE sought to determine and furnish extra employability services needed by unemployment insurance claimants who seem likely to exhaust their benefit rights, so as to help them take advantage of available job opportunities.

The project worked with experimental and control groups of UI claimants who reached their 13th week of unemployment benefits and did not have definite prospects of employment.

Findings show a demonstrated improvement of 9 percentage points in the post-SPRUCE employment rate. At the end of the 6-month followup interval, 55 percent of the experimental group were employed, compared with 46 percent of the control group.

With respect to whether the SPRUCE system can reduce the duration of benefits, the project indicates a slight gain for the experimental group which is not statistically significant.

SPRUCE
Exhaustion of U. C. claim
Predicting U. C. claim exhaustion
Summary

The major findings of the Project relate to differences in the ES services provided to Test and Control claimants, in the exhaustion rates of the two groups, and in their post-SPRUCE employment status.

Services

Four months after the Project's main operation, a check of ES records produced the following summary of services furnished to the Test and Control groups, respectively:

<table>
<thead>
<tr>
<th>Service</th>
<th>Test claimants</th>
<th>Percent</th>
<th>Control claimants</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRUCE office</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhusted benefit rights</td>
<td>482</td>
<td>100%</td>
<td>542</td>
<td>100%</td>
</tr>
<tr>
<td>Unfavorable claim termination</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In-depth interview</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No service beyond registration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counseling</td>
<td>101</td>
<td>21</td>
<td>306</td>
<td>56</td>
</tr>
<tr>
<td>Counseling (medical)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testing</td>
<td>136</td>
<td>28</td>
<td>61</td>
<td>11</td>
</tr>
<tr>
<td>Training</td>
<td>39</td>
<td>8</td>
<td>20</td>
<td>4</td>
</tr>
<tr>
<td>Vocational rehabilitation</td>
<td>54</td>
<td>11</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>Vocational rehabilitation (med)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other rehabilitation (educational)</td>
<td>20</td>
<td>4</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Job-search assistance</td>
<td>212</td>
<td>44</td>
<td>b</td>
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</tr>
<tr>
<td>Job development</td>
<td>112</td>
<td>23</td>
<td>58</td>
<td>11</td>
</tr>
<tr>
<td>Job referral</td>
<td>219</td>
<td>45</td>
<td>184</td>
<td>34</td>
</tr>
<tr>
<td>Placement</td>
<td>70</td>
<td>15</td>
<td>32</td>
<td>6</td>
</tr>
</tbody>
</table>

a. Thirty-four persons terminated their claims before in-depth interview could be arranged.
b. Available only to Test group.c. Includes 33 persons who did not have in-depth interviews.

The figures show clearly that, without the special attention made available by Project SPRUCE, 50 percent of the Control group received no services beyond registering and visiting at the regular Local Offices. On the other hand, only 21 percent of the Test group failed to receive defined services at the SPRUCE Office. Apparently the in-depth interviews, and continuing focus on employability at the SPRUCE Office, uncover greater needs for special employment services than are routinely brought out in regular Local Office operation.

Although the Test group was smaller than the Control group (482 vs. 542), twice as many in Test as in Control received counseling, testing, and job-development services; one-fifth more received job-referral service. Resulting placements benefited more than twice as many Test claimants as Control claimants (70 vs. 32) despite the fact that 30 Test claimants were still in training and not yet available for placement.

The most common of the Project's special services was job-search assistance, which was furnished to 212 claimants or 44 percent of the Test group. This service provided labor market information and suggestions for effective jobseeking techniques organized into an individual job-search plan.

Exhaustion

Data on individual terminations from the Project show exhaustion of benefit rights as the main reason for discontinuation of claim.

<table>
<thead>
<tr>
<th>Reason for discontinuation</th>
<th>Test group</th>
<th>Control group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhausted benefit rights</td>
<td>313</td>
<td>391</td>
</tr>
<tr>
<td>Employment</td>
<td>109</td>
<td>107</td>
</tr>
<tr>
<td>Benefit year expired</td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>Disqualified</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Moved away, died, or unknown</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td>reason</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total terminations</td>
<td>462</td>
<td>542</td>
</tr>
</tbody>
</table>

Since the objective, from the standpoint of SPRUCE, was to forestall exhaustion of benefit rights by securing employment, the comparative analysis is limited to the first two outcomes and excludes the other three. Thus, in measuring claim exhaustion versus employment secured before exhaustion, the Test group shows 74 percent exhausting and 26 percent returning to work, whereas the Control group experienced 78 percent exhaustion and 22 percent return to work.

This 4-percent difference in favor of the Test group cannot be considered statistically significant for a sample of this size. While this fails to prove that the difference is attributable to the SPRUCE system rather than to chance, it does not disprove it—and a larger sample presenting similar proportions could possibly establish statistical significance.

In respect to exhaustion of benefit rights, the provision of services—whether in the Test group or the Control group—is associated with poorer outcomes (higher exhaustion rates), reflecting the fact that those persons whom ES staff found it necessary to serve were the less employable ones, requiring additional time to secure employment.

This outcome is consistent with a finding in Project CLASP, where it was observed that among claimants classified as needing counseling and retraining, those who received such services had longer benefit duration than those who did not.

Employment Status

Followup data on subsequent employment status show contrasting employment rates for Test and Control

claimants at three intervals after termination (for all reasons) from Project SPRUCE:

<table>
<thead>
<tr>
<th>Post-SPRUCE interval</th>
<th>Test group</th>
<th>Control group</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Total reporting</td>
<td>Reported employed</td>
</tr>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
</tr>
<tr>
<td>3 weeks...</td>
<td>331</td>
<td>134</td>
</tr>
<tr>
<td>13 weeks...</td>
<td>306</td>
<td>180</td>
</tr>
<tr>
<td>26 weeks...</td>
<td>331</td>
<td>183</td>
</tr>
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There is a clear and enduring effect on post-SPRUCE employment status. The Test group advantage of 9 percent, both at 3 weeks and at 6 months, is statistically significant and attributable to the SPRUCE system. These 9 percentage points represent a Test group margin of 20 percent over the Control group baseline of 46 percent. In absolute numbers, this means that more than 30 Test claimants had jobs, as long as 6 months after terminating from Project SPRUCE, who presumably would not have been working if they were in the Control group.

It may be noted, in addition, that claimants in both the Test and Control groups were relatively more successful in finding jobs after cessation of UI benefits than during their active claim period. For both groups generally, the pre-termination employment rate (as shown in the preceding section) was about one-fourth, while the level achieved post-SPRUCE was about one-half.

A larger proportion of claimants who were provided with ES placement service at the SPRUCE office (Test) maintained employment than either those who did not receive such service at all or who received it at a regular local office (Control). This is shown in the following summary both for Test Claimants placed by the SPRUCE office and for Control claimants placed by local offices:

<table>
<thead>
<tr>
<th>Placement status and followup interval</th>
<th>Percent employed at followup</th>
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<tbody>
<tr>
<td>Received ES placement before termination</td>
<td>Test group</td>
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<tr>
<td>3-week response...</td>
<td>70%</td>
</tr>
<tr>
<td>13-week response...</td>
<td>64%</td>
</tr>
<tr>
<td>26-week response...</td>
<td>73%</td>
</tr>
<tr>
<td>No ES placement before termination</td>
<td></td>
</tr>
<tr>
<td>3-week response...</td>
<td>41%</td>
</tr>
<tr>
<td>13-week response...</td>
<td>46%</td>
</tr>
<tr>
<td>26-week response...</td>
<td>51%</td>
</tr>
</tbody>
</table>

Although, in general, claimants placed by SPRUCE were much more likely to be employed at each of the followup points than those who found employment on their own, this was not the case for those who received job-search planning. Test claimants who found reemployment by themselves as a result of job-search assistance had an employment rate at the end of followup which exceeded even the rate for those placed by ES (81 percent vs. 73 percent).

Wage Rates

The overwhelming majority of Project clients (in both Test and Control groups) who were employed post-SPRUCE, were working for other than their former employers. This is not surprising, since the screening procedure for enrollment in the Project excluded any claimant who might expect recall to his previous job, but is mentioned because it may have a plausible relationship to a finding of lower hourly earning rates in early post-SPRUCE employment, compared with pre-SPRUCE hourly earning rates.

<table>
<thead>
<tr>
<th>Test group</th>
<th>Control group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number reporting earning rates in 3-week followup</td>
<td>77</td>
</tr>
<tr>
<td>Pre-SPRUCE average</td>
<td>$3.10</td>
</tr>
<tr>
<td>Average at 3-week followup</td>
<td>2.77</td>
</tr>
<tr>
<td>Number reporting earning rates in both 13-week and 26-week followups</td>
<td>156</td>
</tr>
<tr>
<td>Pre-SPRUCE average</td>
<td>$3.18</td>
</tr>
<tr>
<td>Average at 13-week followup</td>
<td>2.95</td>
</tr>
<tr>
<td>Average at 26-week followup</td>
<td>3.11</td>
</tr>
</tbody>
</table>

Test and Control claimants appear equally liable to suffer reduced rates of pay initially, and to recover their pre-SPRUCE levels within 6 months. Reflected in the above may be a willingness to accept a lower-paying job after cessation of UI benefits, which could contribute to the post-SPRUCE rise in reemployment noted in the preceding section.

Rehabilitation and Retraining

Although the Project's use of in-depth interviews, and its constant focus on the question of employability, uncovered greater needs for special service than are routinely brought out in regular Local Office operation, the proportion requiring medical and educational rehabilitative services is not large. Only 20 persons in the Test group were given vocational rehabilitation (4 percent). Among others for whom these services were proposed by Project staff, there were six who declined medical rehabilitation, and three who declined educational rehabilitation.

Fifty-four persons in the Test group were given manpower training (11 percent) and another 19 persons rejected such training.

Of the 28 persons who rejected these services—medical, educational, training—all but nine did participate in, and willingly accept, alternative plans which utilized one or more of the more common ES services, such as counselling, job development, etc.

Prediction of Insurance Exhaustion

One line of exploration opened by SPRUCE continues to be independently pursued by the authors of the report—the possibility of earlier identification of the prospective exhaustee, so as to initiate corrective action
sooner. Experimental use of a special profile of personal characteristics and work history will be evaluated to develop a scale for scoring a claimant's likelihood of benefit exhaustion.

The characteristics used in this preliminary profile were selected on the basis of factor analysis and correlation; they include previous year's income, educational attainment, length of gainful employment, type and history of unemployment, age, and sex. The evaluation also will seek to identify relevant factors of interviewer judgment.

Cost/Benefit Analysis

If results are to be finally evaluated in dollar terms, it must be acknowledged that Project SPRUCE has given no conclusive evidence of savings in UI benefit payments. On the other hand, its superior record of reemployment may indicate that positive monetary values may be credited to it. This will be measurable when comparative longitudinal earnings records (special Social Security data tapes) become available in the near future.
Nature of the Problem

SPRUCE represents a Special Program of Rehabilitation for Unemployment Compensation Exhaustees, which was the subject of a bill drafted in 1968 to enable the system to better cope with the needs of insured workers who experience long-term unemployment.

Many workers who have enough recent covered employment to qualify for regular unemployment compensation have some inadequacy or problem that so hampers their reemployment that they are still unemployed and seeking work when they exhaust their UI benefits. Given the availability of jobs, such workers may very well need training, guidance, relocation, relatively minor medical help, or other rehabilitative service to restore them to work and prevent their joining the long-term, hard-core unemployed.

Since the individual who has just exhausted his UI benefit rights is a recent member of the employed work force, he may be overlooked by the various programs intended for the hard-core disadvantaged. Even when he meets the basic technical requirements for assistance under such programs, he may not be in a group designated for service priority.

SPRUCE is a program that would concentrate on this "disadvantaged" population of UI claimants to provide the full spectrum of employment security services and special services to meet its needs. It would attempt to utilize UI office and staff relations with UI recipients to help them gain reemployment sooner.

An experimental and demonstration (E & D) project was jointly planned by the Federal UI Service and the New York State Division of Employment to be conducted by the Division, in the city of Buffalo—in which the full range of SPRUCE services, proposed in the Federal legislative draft, would be accorded a group of potential UI exhaustees. This E & D project is believed to be the first attempt in the history of major Federal UI legislation to test the feasibility of proposed legislation and to evaluate, change, and improve it, if necessary, prior to submission for Congressional consideration.

Objectives and Means

In arriving at a thoroughly documented test of the experimental SPRUCE program, and in order to provide the information necessary to both its evaluation and implementation, Project activities were designed to realize eight primary objectives. These are listed here with a brief explanation of how each was accomplished:

1. To determine whether the potential exhaustees can be identified in the early stages of unemployment.

2. To determine the type of special services needed by SPRUCE claimants, their willingness to accept such services, and the effectiveness of special services provided.

3. To determine whether incentive payments motivate SPRUCE claimants to take training and accept related or other employment.

4. To identify and solve administrative problems of the SPRUCE program.

5. To determine how community services and facilities can be utilized to implement SPRUCE.

6. To test procedures for implementing SPRUCE.

7. To produce an outline of training or a completed training manual for UI and ES staff in providing SPRUCE services.

Project selection criteria were designed to obtain a subject population which would include a large percentage of those who could be expected to exhaust their benefits. A data system was established in which demographic, work, and personal characteristics of these individuals could be compared according to an exhaustion-nonexhaustion dichotomy.

The services most appropriate for each experimental claimant were determined during the course of personal interviews and staff consultations; the willingness of the claimant to accept offered services involved keeping track of the numbers who refused service, along with the reasons for their refusal; and the effectiveness of the service program provided by the SPRUCE system was evaluated through the collection of data on exhaustion and post-SPRUCE employment.

Included in the report on administrative problems are details on what community agencies, facilities, and services were sought; what was done to secure them; what happened as a result of the Project's attempts to utilize these local resources; and the techniques used to secure cooperative relationships.
SPRUCE’s counseling operations, contains the procedures used in the training of SPRUCE counselors and the materials developed during the course of the Project, along with illustrative case data. (See Supplement, Part 3.)

8. To determine the cost-benefit relationship of the SPRUCE program.

Data on costs of Project administration, UI benefit payments, and allowance and incentive payments, combined with SPRUCE impact on outcomes (duration of claim, exhaustion of benefits, and post-SPRUCE employment), provide a tentative appraisal.

Plan and Design

After official authorization in July 1969, Project SPRUCE was inaugurated by the New York State Division of Employment with the appointment of a Project Director in its Buffalo office on August 18, 1969. The Project developed on the following pattern and schedule:

Phase I. Planning, 8/18–11/15/69
Trial Run, 11/17/69–2/14/70
Review and consolidation, 2/16–3/28/70

Phase II. Full-scale operation, 3/30–12/31/70

Phase III. Followup, 1/4–9/30/71

The operating plan was to select 1,200 UI claimants for enrollment in the Project, half in a demonstration group (also referred to as the service group or the experimental group, and labelled throughout the Project record and reporting system as the Test group), and half in a Control group.

Group selection was based on the last digit of Social Security Numbers: even numbers were designated Test group, odd numbers Control group. Control group claimants reported to the SPRUCE Office for UI purposes only and received the usual employment services from the regular ES offices.

Test group claimants, however, received UI service and also usual and special ES services from Project SPRUCE. Processing of Control group claimants in the SPRUCE Office for UI service was deemed necessary in order to get required research data.

In focusing the full spectrum of employability services on the Test group, it was not intended that SPRUCE should become a separate manpower program; it was, instead, to provide ready access to—and assure maximum utilization of—all existing community services and manpower programs needed, including intensive interviewing, career counseling, and testing; educational, vocational and medical rehabilitation; other supportive rehabilitation services, retraining, and relocation; handi and incentive payments; job-search assistance, job development, referral, and placement services.

A trial run was scheduled—through separate handling of the first 200 enrollees—as a training and self-monitoring technique, to provide the guides at every stage of progress for desirable adjustments to be introduced in the lagged but corresponding stage for the main groups of 500 Test and 500 Control claimants.

Benefit data of recent years indicated that about half of all claimants collect 13 weeks or more of benefits. It was agreed, therefore, that the Project would begin its reemployment efforts with claimants at their 13th week. It was also agreed that, in order to allow sufficient time for initiating SPRUCE services before exhaustion of benefits, only those certifying up to the 19th benefit check at time of enrollment would be accepted. From among claimants in their 13th to 19th week of benefit status, selection was made of those over 21 and under 65 years of age who did not have definite prospects of jobs and who were not involved in special placement arrangements with trade unions.

Scope and Format

Aside from focusing special and concentrated attention on a sample of UI claimants, Project SPRUCE introduced several unique features—for analytic as well as operational reasons—in its approach to clients and in rendering service.

The SPRUCE Office occupied a modestly sheltered space off a stairwell on the opposite side of which was the entrance to the large UI Local Office. There the customary certification counter paralleled one wall and several claims lines often reached across the otherwise barren and left-like floor.

By contrast, the chairs and reading table in the waiting area of the SPRUCE Office—and the regular desk of the Claims Taker beside which the claimant could be seated while certifying—presented a physical aspect of comfort and dignity. Scheduling of interviews also kept waiting time to a minimum.

Cooperation between UI and ES was close. The SPRUCE Office was served by professional ES staff specially assigned to its premises, and Senior ES Consultants participated directly in planning, staff training, and supervision of case conferences.

Control claimants were informed that they were participants in a research project to improve UI services. Test claimants were informed, further, that the Project would help them toward reemployment if they were prepared to cooperate. A special feature of SPRUCE was the provision of incentive allowances to compensate for the extra effort, time, and expense of active participation by the Test claimant.

Another feature was the introduction of job-search assistance as a basic service, performed by interviewers on both the UI staff (Claims Examiner) and the ES staff (Employment Interviewer). Upon installation of the computerized job-bank in mid-1970, the SPRUCE Office was also provided with a job-bank microfilm reader.

Another such feature was the establishment of case conferences, or formally scheduled staff consultations, for joint evaluation of individual Test claimants, identification of special needs, review of proposed employability plans, and consideration of internal or external programs and agencies to be used for special services.

Two special features introduced for analysis were (1) a job-readiness classification defining the degree of employability of individual Test and Control claimants, and (2) a classification of individual claimants by their reason for becoming unemployed, i.e., by criteria for differentiating the economic causes of unemployment.
Limitations

Although the SPRUCE concept was predicated on the proposition that the work force needs the UI claimant, and that he could be enabled to rejoin it by remedying his shortcomings, this pretest of the program actually took place under market conditions that may have contradicted the proposition.

The first operations report (4/8/70) called attention to this impact on Project SPRUCE as follows:

When the Trial Run began in November 1969, the area labor market had begun to show signs of contracting. There were temporary lay-offs from the automobile industry and seasonal lay-offs from the construction and food-preserving industries. These were screened out of Project SPRUCE because of the apparent temporary nature of the lay-offs and the consequent prospect of early recall to work.

As the economic downturn continues, and develops longer or more indefinite lay-offs, more unemployment insurance claimants could become potential SPRUCE enrollees, since our intake period is scheduled to extend up to 20 weeks. This means that careful attention must be given to the lay-offs from various industries to determine the degree of employer attachment involved.

Thus, while potential enrollees for Project SPRUCE are expected to be plentiful, the problems to be met in implementing the SPRUCE program may be more complex than those met in the Trial Run, particularly in respect to the reduced chance of realizing the end goal of placement or self-placement.

In addition to the local and general economic recession, some limitation on the Project's freedom of operation was anticipated from the possibility that some needed special service facility might be lacking or inaccessible. Actually, only a few instances arose in which desired training was unavailable in particular occupations at particular times. A more generally felt community need, however, remained unsatisfied—an occupational health program that could provide comprehensive medical diagnostic determination of the work capabilities of claimants; it was agreed that instead of using standard medical forms declaring a person able-to-do-light-work, unable-to-work, fully-able-to-work, etc., expert findings should be available as to the kind of activity a person could not engage in; furthermore, a post-placement medical evaluation was considered desirable to determine (after a day, a week, or a month) whether the specific job assignments were within a person's capabilities.

Another (not completely unanticipated) limitation upon the interpretation or application of Project results is the cumulated experience of other researchers in behavior modification, indicating that observation per se is an effective positive form of intervention even when it involves unwelcome surveillance or critical scrutiny. We have been familiar, heretofore, with the positive "Hawthorne Effect" of physical alterations of an accustomed work or clinical setting. These and similar psychological or motivational effects can be a major problem in any social project because it is difficult—perhaps impossible—to pay any sort of attention to people without changing them in some way, and such changes are often unpredictable or unidentifiable for explicit measurement.

In the present case, we believe these uncertainties are reduced substantially by two features of the research design that are discussed at some length among other factors in the next chapter: (1) the Control group, too, received some forms of special attention (being selected to participate in a research study, using the Project SPRUCE Office for claim certification along with Test claimants, receiving followup questionnaires on employment status, etc.), and (2) the analysis of outcomes was planned to reveal specific differential effects of various subgroups distinguished by specific basic characteristics, types of service, and staff judgments.

But though certain statistical techniques enable us to attach "significance" to certain measures with a stated degree of confidence, those determinations of significance refer to probabilities pertaining to the randomness of samples, rather than to the likelihood of underlying subtle (subconscious or calculated) ego responses. So, in some respects, the question of how much a recorded Test vs. Control difference in outcome is attributable to the substantive content of the SPRUCE program, and how much to the placebo effect of attention per se and to unintentional or deliberate circumvention by clientele or staff, may remain moot.
Primary Analytic Procedures

The proposed SPRUCE system, as an experimental approach to the employment adjustment of UI claimants, had to be evaluated against the success rates of the customary system. The accomplishment of this objective demanded the establishment of a definably different experimental system, random assignment to Test and Control conditions, and the collection of followup data on the criteria of benefit exhaustion and employment over three points in time.

This triple followup was seen as essential to the determination of any time-dependent effects: that is, in the event that one approach should prove to be superior to the other, we wanted to know whether the gain was only temporary or if it would persist over a significant period of time. Since common research experience indicates that new service programs may appear to be more successful when judged from initial followup than they turn out to be ultimately, extended followup was considered necessary. We were reasonably sure that the 26-week point of dat collection would provide us with a reliable indication of relatively lasting effects.

We also required a system that would provide us with multiple measures. In the research and evaluation of large service-oriented projects, a multiplicity of observations can greatly increase the confidence placed in the results. Thus, the design allowed us to consider in our interpretations both consistency within the data and stability over time. The sampling procedure, in which claimants were randomly assigned to the Test and Control groups for the duration of the Project, was necessary to avoid the bias that could have occurred as a general result of the passage of time or of possible economic improvement. It was considered that these conditions of measurement and control would be sufficient to yield information of the scope and reliability necessary to the intended evaluation of the SPRUCE program.

There was, however, an additional and unwanted source of variance for which, given the limitations imposed by a community-based, social-action project, there was no completely satisfactory solution: What do we do about the so-called Hawthorne Effect? We sought to provide at least some counterbalance for this effect as a competing hypothesis: (1) Control claimants also received some special attention (i.e., interviewing, experimental participation instructions, and research followup) that would not ordinarily be encountered, and (2) we planned a final analysis that would help to reveal the incidence of specific differential effects related to claimant characteristics and to type of service. The logic of this latter statement is that if there is some general factor that represents a treatment received by all members of the Test group, such an overall effect should be observed in the outcome data. If the same general factor is also operative to the same extent in the Control group, comparisons between Test and Control on SPRUCE elements are still valid; if it is not, of course, one is faced with the possibility that any observed differences were produced by that factor. If, however, one notes a prevalence of differential effectiveness between Test and Control within claimant categories, it is not as logical to assume that such a factor would facilitate outcomes for certain claimant subgroups but not for others. In this case, such an analysis was also necessary in order to yield desired information on which types of claimants would be most benefitted by a SPRUCE-type program. If no general improvement factor were found to characterize the experimental group, it could be concluded that, to some extent, this particular effect had been successfully counterbalanced or had not existed as a source of bias.

The data were processed in several stages, as indicated by the following methodological outline. The entire sequence might be described as a sort of inwardly spiraling procedure in which we advanced from general to specific questions, and in which each subsequent analytic procedure depended upon the results of the preceding analysis.

1. We first prepared histograms of the basic data on all claimant characteristics to permit visual inspection of the frequency distributions in each variable. Because much of the data was nominal in form (i.e., frequencies of categorical attributes like sex, race, marital status, employability, etc.)—and much of the ordinal data (for variables measured on a size-ordered scale, like age or earnings) was not normally distributed—most of the histograms showed severe distributional anomalies. The features of the histograms were therefore used to determine the most appropriate conversion of variables like age, education, earnings, weeks of unemployment, etc., to categorical (class interval) frequencies, and the required combination or segregation of categories whose frequencies were too small for analysis.

2. The object of the statistical analysis was to determine whether or not the distribution of any given characteristic was significantly different in the Test group as compared with the Control group. Such a difference is possible to some extent because of the use of samples.
To determine whether the difference was significant, the Chi Square ($\chi^2$) distribution was used since many of the variables were qualitative and the same test can be used for quantitative data.1

3. The basic characteristics of the two claimant populations were tested in order to establish the equivalence of the two groups on all known nonexperimental factors that might be considered related to either exhaustion or employment. In making these decisions, we used a conservative confidence level ($p < .10$) in deciding whether to consider the Test and Control groups equal in terms of any particular characteristic. That is, only if $\chi^2$ were so large as to be the result of a chance occurrence less than 10 times out of 100 would the difference between Test and Control be considered significant. (As indicated in the section on Project results, we found the two groups to differ in one characteristic, Reason for Becoming Unemployed. To adjust for this, additional work, described in item 5 below, was required to make the two distributions similar.)

4. We now had to establish, from the service data, whether in fact the Test and Control groups had been differently treated. The two groups were tested in terms of the type and amount of services provided. This indicated that Test claimants had indeed received far greater service, even in the types that were equally available to Control claimants at regular ES local offices.

5. Before proceeding with a general test of the relative effectiveness of the SPRUCE system, it was necessary to equate the experimental and control groups in terms of their basic characteristics. Since the two claimant populations were not equivalent on the variable of Reason for Becoming Unemployed, and since that variable had been found to be related to the followup criteria, we performed a randomized “deselection” procedure to equate the Test and Control groups on this variable.

6. Because of the possibility that this procedure had inadvertently produced biasing in other variables, it was then necessary to reestablish the equivalence of the study groups on all of the basic characteristics.

These tests indicated that the groups were now equivalent on all primary dimensions.

7. At this point, we were ready to measure Test group outcomes against Control group outcomes in terms of the relative incidence of benefit exhaustion and employment at 3, 13, and 26 weeks past the termination of their claimant status. These results would not be biased by differences in characteristics and should be indicative of the overall effect of the experimental programs conducted by SPRUCE.

8. The final step was to provide further specific information for policymaking and administrative programming. We wanted to know the type of claimant most benefited by SPRUCE-type programs, and the degree of superiority in terms of percentage increases in success rates; and, by determining which subgroup had not been helped by SPRUCE, to develop a focus for new experimental programs that might reach those specific claimant groups. In order to provide these data, and as the final step in our analytic procedure, each available claimant characteristic was used to pull a subgroup from the total SPRUCE population that would have that characteristic as a common definition. That subgroup was then split into its Test and Control components and tested against the outcome criteria—employment and exhaustion. This analysis involved over 500 comparisons.

In brief, the primary analytic sequence involved a logical progression aimed at providing answers to the basic questions required by a complete evaluation:

1. How effective is the SPRUCE program in comparison with the customary UI and ES activities for claimants?
2. What specific kinds of services seem most likely to yield positive results?
3. What specific kinds of claimants are most likely to profit from additional services?

When the impact of service programs is of some known type and amount, the experiences of a project such as this can provide an impetus for positive change. The function of an analytic design is to provide an objectively-based rationale for either the continuance or revision of specific types of programs.

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Statistical Adequacy

As already pointed out, enrollees in Project SPRUCE were selected by age, duration of claim, prospects of recall (by employer or union), etc., to provide a Project population having a high likelihood of benefit exhaustion, but with capacity for restoration to the employed work force. Consequently, they cannot be regarded as representing the general UI claimant population.

But it is necessary, in order to permit meaningful interpretation of differential results, to establish that the Test and Control groups are substantially equivalent. This is discussed both in respect to the basic characteristics of the enrollees and in respect to their accessibility for followup.

Comparability: Test and Control

UI claimants were assigned to the Test or Control group on the basis of odd or even Social Security numbers. While this procedure should have led to nonbiased assignment, tests of the basic characteristics of the two groups were made to determine whether the Test and the Control groups were truly comparable. This step was considered to be necessary for the interpretation of any subsequent differences that might be observed.

One major characteristic that might be expected to be related to later success would be the demonstrated earning power of the claimant; therefore, the hourly rate of pay of claimants was obtained from the characteristics data. A comparison of the Test and Control groups on earnings before unemployment indicated that the groups were comparable. The percentage distributions were almost identical, and the Chi Square of 1.208 (with 4 degrees of freedom, p > .80) is very far from challenging the null hypothesis of equality.

Percent Distribution of Earnings of SPRUCE Claimants Before Unemployment

<table>
<thead>
<tr>
<th>Hourly earnings</th>
<th>Test group</th>
<th>Control group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Less than $2.00</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>$2.00–2.99</td>
<td>34</td>
<td>37</td>
</tr>
<tr>
<td>$3.00–3.99</td>
<td>32</td>
<td>31</td>
</tr>
<tr>
<td>$4.00–4.99</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>5.00 or more</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

X² = 1.208 (with 4 degrees of freedom), Probability of occurrence by chance, p > .80.

Statistical tests were also run on 12 additional characteristics. (See table on page 10.) With one exception, the sampling procedure seems to have led to samples that were highly comparable; and, in fact, the percentage compositions of the Test and Control groups were very similar. Most of the differences that did exist could easily have occurred through random selection. One characteristic, Reason for Becoming Unemployed, however, showed a significant difference (χ² = 14.841, d.f. 6, p < .05) between Test and Control claimants.

The definitions involved in the technical classifications of Reason for Becoming Unemployed should be understood as follows:

SEASONAL: Unemployment based on customary reduction or cessation of operations at certain times of year because of dependence on climate, consumer demand, style change, etc.

IRRGLULAR: Unemployment based on the sporadic nature of demand inherent in the production of certain goods, the performance of certain services, or the availability of certain contracts or materials; or on unforeseen events—e.g., fire, delays in prior processing, etc.—which interrupt an otherwise regular production process; or on work-sharing arrangements.

CYCLICAL: Unemployment based on the contraction or slowdown of the general economy affecting different industries in turn, as triggered by tight money, inventory accumulations, etc.

STRUCTURAL: Unemployment based on shutdown of plants due to migration of industry, or on a change in the staffing pattern within an industry, or on the size or number of firms within an industry, as triggered by credit and financial difficulties or by long-run changes in demand for product, in mode of marketing, in use of materials, in union influence, etc.

TECHNOLOGICAL: Unemployment based on a change in the techniques of production, reducing the need for certain occupations, skills, or talents.

FRICNTIONAL: Unemployment based on individual workers’ and employers’ trial-and-error processes in finding the right match of man and job; such unemployment may occur upon a worker’s entry or re-entry into the labor force, or as a result of his dissatisfaction with working conditions on the job, or upon his employer’s decision to replace him.

REDUCED EMPLOYABILITY: Unemployment based on impaired productive value of the individual worker because of physical condition, as triggered by aging, illness, handicap, accident, pregnancy, etc., or because of limited availability due to increased family and home responsibilities.

The three types of Reason for Becoming Unemployed that show the greatest imbalance between Test and Control are seasonal, cyclical, and technological. Only 37 percent of the seasonal layoffs were in the Test group; and only 37 percent of those whose unemployment was cyclical or technological were in the Control group.

1. That is to say, a difference represented by a χ² as large as 14.841 (with 6 degrees of freedom) would be expected to occur by chance less than 5 times out of 100.
### Characteristics of SPRUCE Claimants

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Test group</th>
<th></th>
<th>Control group</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
<td>Percent</td>
</tr>
<tr>
<td>Total enrollees</td>
<td>482</td>
<td>100.0</td>
<td>542</td>
<td>100.0</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Under 25</td>
<td>86</td>
<td>17.8</td>
<td>95</td>
<td>17.5</td>
</tr>
<tr>
<td>25-34</td>
<td>122</td>
<td>25.3</td>
<td>126</td>
<td>23.2</td>
</tr>
<tr>
<td>35-44</td>
<td>102</td>
<td>21.2</td>
<td>110</td>
<td>20.3</td>
</tr>
<tr>
<td>45-54</td>
<td>115</td>
<td>23.9</td>
<td>127</td>
<td>23.5</td>
</tr>
<tr>
<td>55-64</td>
<td>57</td>
<td>11.8</td>
<td>84</td>
<td>15.5</td>
</tr>
<tr>
<td><strong>Sex</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>235</td>
<td>48.8</td>
<td>286</td>
<td>52.8</td>
</tr>
<tr>
<td>Female</td>
<td>247</td>
<td>51.2</td>
<td>256</td>
<td>47.2</td>
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<tr>
<td><strong>Marital Status</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Single</td>
<td>132</td>
<td>27.4</td>
<td>156</td>
<td>28.8</td>
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<tr>
<td>Married</td>
<td>262</td>
<td>54.3</td>
<td>304</td>
<td>56.1</td>
</tr>
<tr>
<td>Widowed, divorced, separated</td>
<td>88</td>
<td>18.3</td>
<td>82</td>
<td>15.1</td>
</tr>
<tr>
<td><strong>Head of family</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>283</td>
<td>58.7</td>
<td>335</td>
<td>61.8</td>
</tr>
<tr>
<td>No</td>
<td>199</td>
<td>41.3</td>
<td>207</td>
<td>38.2</td>
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<tr>
<td><strong>Population group</strong></td>
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</tr>
<tr>
<td>White</td>
<td>354</td>
<td>73.4</td>
<td>422</td>
<td>77.9</td>
</tr>
<tr>
<td>Nonwhite</td>
<td>128</td>
<td>26.6</td>
<td>120</td>
<td>22.1</td>
</tr>
<tr>
<td><strong>Primary wage earner</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>291</td>
<td>60.4</td>
<td>351</td>
<td>61.8</td>
</tr>
<tr>
<td>No</td>
<td>191</td>
<td>39.6</td>
<td>191</td>
<td>38.2</td>
</tr>
<tr>
<td><strong>Reason for becoming unemployed</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seasonal</td>
<td>25</td>
<td>5.2</td>
<td>43</td>
<td>7.9</td>
</tr>
<tr>
<td>Irregular</td>
<td>180</td>
<td>37.3</td>
<td>202</td>
<td>37.5</td>
</tr>
<tr>
<td>Cyclical</td>
<td>31</td>
<td>6.4</td>
<td>18</td>
<td>3.3</td>
</tr>
<tr>
<td>Structural</td>
<td>99</td>
<td>20.6</td>
<td>111</td>
<td>20.5</td>
</tr>
<tr>
<td>Technological</td>
<td>27</td>
<td>5.6</td>
<td>16</td>
<td>2.9</td>
</tr>
<tr>
<td>Frictional</td>
<td>76</td>
<td>15.8</td>
<td>99</td>
<td>18.3</td>
</tr>
<tr>
<td>Reduced employability</td>
<td>44</td>
<td>9.1</td>
<td>53</td>
<td>9.8</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 8 years</td>
<td>24</td>
<td>5.0</td>
<td>35</td>
<td>6.5</td>
</tr>
<tr>
<td>8 years</td>
<td>50</td>
<td>10.4</td>
<td>62</td>
<td>11.4</td>
</tr>
<tr>
<td>9-11 years</td>
<td>134</td>
<td>27.2</td>
<td>155</td>
<td>28.6</td>
</tr>
<tr>
<td>12 years</td>
<td>174</td>
<td>36.0</td>
<td>174</td>
<td>32.1</td>
</tr>
<tr>
<td>13-15 years</td>
<td>74</td>
<td>15.4</td>
<td>86</td>
<td>15.9</td>
</tr>
<tr>
<td>16 years or more</td>
<td>26</td>
<td>5.4</td>
<td>30</td>
<td>5.5</td>
</tr>
<tr>
<td><strong>Number of dependents</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>227</td>
<td>47.1</td>
<td>279</td>
<td>51.5</td>
</tr>
<tr>
<td>1-3</td>
<td>201</td>
<td>41.7</td>
<td>219</td>
<td>40.4</td>
</tr>
<tr>
<td>4 or more</td>
<td>54</td>
<td>11.2</td>
<td>44</td>
<td>8.1</td>
</tr>
<tr>
<td><strong>Barrier to reemployment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>348</td>
<td>72.2</td>
<td>376</td>
<td>69.4</td>
</tr>
<tr>
<td>No</td>
<td>134</td>
<td>27.8</td>
<td>166</td>
<td>30.6</td>
</tr>
<tr>
<td><strong>Employability</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job-ready</td>
<td>347</td>
<td>72.9</td>
<td>393</td>
<td>72.5</td>
</tr>
<tr>
<td>Not job-ready</td>
<td>135</td>
<td>27.1</td>
<td>149</td>
<td>27.5</td>
</tr>
<tr>
<td><strong>Physical handicap</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>55</td>
<td>11.4</td>
<td>61</td>
<td>11.3</td>
</tr>
<tr>
<td>No</td>
<td>427</td>
<td>88.6</td>
<td>481</td>
<td>88.7</td>
</tr>
</tbody>
</table>

---

a. Claimants on seasonal layoff were enrolled in the Project only if their industry attachment was so tenuous as to render doubtful the expectation of recall, or if they expressed interest in other employment.
Unfortunately, even if these differences happened by chance, the Test and Control groups are not really comparable here in terms of this characteristic. To the extent that differences in outcome are related to seasonal, cyclical, and technological reasons for unemployment (which does seem likely), outcome comparisons between the total groups can be distorted. In fact, if any of these categories are related to outcome, then the larger number of Test group subjects in one of them and of Control group subjects in the other two could either amplify or negate relationships between Test group membership and outcome.

To check this, the relationship between Reason for Becoming Unemployed and outcomes was tested. The following table summarizes the results:

<table>
<thead>
<tr>
<th>Reason for Becoming Unemployed</th>
<th>Percent exhausting</th>
<th>Percent employed at:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3 weeks</td>
</tr>
<tr>
<td>Seasonal</td>
<td>83.9</td>
<td>33.9</td>
</tr>
<tr>
<td>Irregular</td>
<td>70.4</td>
<td>51.9</td>
</tr>
<tr>
<td>Cyclical</td>
<td>71.7</td>
<td>58.5</td>
</tr>
<tr>
<td>Structural</td>
<td>77.3</td>
<td>36.6</td>
</tr>
<tr>
<td>Technological</td>
<td>82.5</td>
<td>36.9</td>
</tr>
<tr>
<td>Frictional</td>
<td>80.8</td>
<td>22.4</td>
</tr>
<tr>
<td>Reduced employability</td>
<td>90.1</td>
<td>22.4</td>
</tr>
<tr>
<td>Chi Square (d.f. 6)</td>
<td>20.404</td>
<td>38.935</td>
</tr>
<tr>
<td>Significance level (i.e., probability of occurrence by chance)</td>
<td>p &lt; .01</td>
<td>p &lt; .001</td>
</tr>
</tbody>
</table>

All of the outcome variables are thus shown to be highly related to the reason for becoming unemployed. The exhaustion rates for irregular and cyclical are markedly low, and for reduced employability markedly high, compared to the other categories. The employment rates of those with reduced employability or seasonal layoff are uncommonly low at all three followups; the structural and frictional cases tend to have low rates at 3-week followup but catch up somewhat by 26 weeks.

These relationships indicate that the overall tests of effectiveness of SPRUCE could be distorted.

There are two different approaches that might be used to correct for this problem. Correlational methods could be used to compensate for the differences between the groups, or the groups can be brought into balance by randomly “deselecting” some claimants in order to equate the groups on Reason for Becoming Unemployed. The latter approach is preferred. Fortunately, the number of subjects in the study was sufficiently large so that deselection did not radically alter the power of the tests applied.

A table of random numbers was used to remove subjects from those cells containing the larger frequencies, giving the following results:

<table>
<thead>
<tr>
<th>Reason for Becoming Unemployed</th>
<th>Original (whole) sample</th>
<th>Deselected (equated) sample</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Test</td>
<td>Control</td>
</tr>
<tr>
<td>Total</td>
<td>482</td>
<td>542</td>
</tr>
<tr>
<td>Seasonal</td>
<td>25</td>
<td>43</td>
</tr>
<tr>
<td>Irregular</td>
<td>180</td>
<td>202</td>
</tr>
<tr>
<td>Cyclical</td>
<td>31</td>
<td>18</td>
</tr>
<tr>
<td>Structural</td>
<td>99</td>
<td>111</td>
</tr>
<tr>
<td>Technological</td>
<td>27</td>
<td>16</td>
</tr>
<tr>
<td>Frictional</td>
<td>76</td>
<td>99</td>
</tr>
<tr>
<td>Reduced employability</td>
<td>44</td>
<td>53</td>
</tr>
</tbody>
</table>

The analysis of characteristics of claimants, comparing Test and Control groups, was then repeated to make sure that the deselection process had not accidentally led to other differences that would be critical. The data did not indicate any significant difference between the two groups after deselection. We were thus reasonably assured that further comparison between the Test and Control groups would not be biased by differences in the types of claimants that they served. The first table on page 12 summarizes the effects of the deselection.
## Comparative Analyses of Test and Control Group Differences on Basic Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Original sample</th>
<th>Deselected sample</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Degrees of freedom</td>
<td>Chi Square</td>
</tr>
<tr>
<td>Age</td>
<td>8</td>
<td>5.724</td>
</tr>
<tr>
<td>Sex</td>
<td>1</td>
<td>1.487</td>
</tr>
<tr>
<td>Physical handicap</td>
<td>1</td>
<td>0.005</td>
</tr>
<tr>
<td>Marital status</td>
<td>3</td>
<td>1.961</td>
</tr>
<tr>
<td>Head of family</td>
<td>1</td>
<td>0.966</td>
</tr>
<tr>
<td>Primary wage earner</td>
<td>1</td>
<td>1.916</td>
</tr>
<tr>
<td>Reason for becoming unemployed</td>
<td>6</td>
<td>14.841</td>
</tr>
<tr>
<td>Education</td>
<td>5</td>
<td>2.541</td>
</tr>
<tr>
<td>Number of dependents</td>
<td>5</td>
<td>6.324</td>
</tr>
<tr>
<td>Barriers to reemployment</td>
<td>1</td>
<td>8.957</td>
</tr>
<tr>
<td>Population group</td>
<td>1</td>
<td>1.775</td>
</tr>
<tr>
<td>Employability</td>
<td>1</td>
<td>0.013</td>
</tr>
</tbody>
</table>

a. The estimate is conservative. A difference (Chi Square) between Test and Control groups as large as the one obtained would occur by chance more often than this.

b. A difference this large (14.8) would occur by chance less often than this.

At this point, the Test and Control groups were considered equivalent. However, in subsequent analyses, the impact of SPRUCE on outcome—exhaustion of benefits, employment at 3 weeks, 13 weeks, and 26 weeks—was determined for both the original groups and the deselected (or equated) groups.

### Followup Response Rates

Benefiting by the Trial Run experience, the improved followup procedures in the full-scale phase were carried out as summarized below, with the forms shown in Appendix B. As the summary figures show, response rates were very high, ranging between 91 percent and 100 percent.

The reason that smaller proportions of the Test group than of the Control group were due for followup is that involvement of Test claimants in Project services has the effect of delaying their termination (i.e., cessation of service) from the Project; and with terminations occurring nearer the end of the Project there are instances of insufficient time left for followup.

### Summary of Followup Response Rates

<table>
<thead>
<tr>
<th>Interval after termination from Project</th>
<th>Test group (total 482)</th>
<th>Control group (total 542)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Percent of group total</td>
</tr>
<tr>
<td>3 weeks</td>
<td>457</td>
<td>94.8</td>
</tr>
<tr>
<td>13 weeks</td>
<td>441</td>
<td>91.5</td>
</tr>
<tr>
<td>26 weeks</td>
<td>415</td>
<td>86.1</td>
</tr>
<tr>
<td>Stage</td>
<td>Test group (482)</td>
<td>Control group (542)</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td></td>
<td>Attempts</td>
<td>Replies</td>
</tr>
<tr>
<td>3-WEEK FOLLOWUP (F1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Records</td>
<td>457</td>
<td>457</td>
</tr>
<tr>
<td>No record</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not due</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>No reply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13-WEEK FOLLOWUP (F2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Letter: Initial</td>
<td>441</td>
<td>233</td>
</tr>
<tr>
<td>2nd request</td>
<td>213</td>
<td>115</td>
</tr>
<tr>
<td>Telephone</td>
<td>99</td>
<td>53</td>
</tr>
<tr>
<td>Community Worker</td>
<td>30</td>
<td>11</td>
</tr>
<tr>
<td>Certified mail</td>
<td>24</td>
<td>9</td>
</tr>
<tr>
<td>Record received</td>
<td>421</td>
<td>206</td>
</tr>
<tr>
<td>Balance (no record):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No attempt (not due) a</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>No reply</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Deceased</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Unreachable</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Refusal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other nonresponse</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>26-WEEK FOLLOWUP (F3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Letter: Initial</td>
<td>415</td>
<td>208</td>
</tr>
<tr>
<td>2nd request</td>
<td>198</td>
<td>85</td>
</tr>
<tr>
<td>Telephone</td>
<td>100</td>
<td>57</td>
</tr>
<tr>
<td>Community Worker</td>
<td>46</td>
<td>19</td>
</tr>
<tr>
<td>Certified mail</td>
<td>33</td>
<td>10</td>
</tr>
<tr>
<td>Record received</td>
<td>379</td>
<td>207</td>
</tr>
<tr>
<td>Balance (no record):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No attempt (not due) a</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>No reply</td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>Deceased</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Unreachable</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Refusal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other nonresponse</td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

a. Project ended before due date for followup.
Relative Impact of the SPRUCE System

Characteristics of Test Claimants

The clientele of Project SPRUCE were, as stated, initially screened and selected to represent a special potential for UIB exhaustion as well as for restoration to employment. And indeed, the profile emerging from the subsequent tabulation of their characteristics does set them apart from the general UI claimant caseload for Buffalo and the State.

The typical Test claimant was under 45 years of age (over two-fifths in the 22-34 years group), white, married, primary wage earner, nonveteran, nonhandicapped, a high school graduate, had 10 years or more of gainful employment, and did not cite any of the listed barriers to reemployment. The group—49 percent male and 51 percent female—had a median personal income of $4,200 in 1969, with a median of $2.82 hourly earnings on last full-time job. The current spell of unemployment for 85 percent of them was 14 to 52 weeks long at time of intake. Almost three-fourths (72 percent) of the entire group were rated as job-ready—i.e., qualified for immediate referral to employment—at time of intake. Slightly over one-fourth of the entire group had interrupted their UI claim to take employment on at least one occasion before their last termination from the Project.

Besides excluding youths under 22 years and workers aged 65 and over, the Test group's male/female ratio of 49/51 was in contrast with the 54/46 ratio among all UI beneficiaries in the State and a 67/33 ratio for Buffalo in 1970. The general proportion of nonwhites in the State and a 67/33 ratio for Buffalo and the State.

In educational attainment also a marked difference appears: the Test group was better-educated.

<table>
<thead>
<tr>
<th>School years completed</th>
<th>Percent of general caseload</th>
<th>Percent of Test group</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>State</td>
<td>Buffalo</td>
</tr>
<tr>
<td>0-8</td>
<td>32%</td>
<td>22%</td>
</tr>
<tr>
<td>9-11</td>
<td>26</td>
<td>29</td>
</tr>
<tr>
<td>12 or more</td>
<td>42</td>
<td>49</td>
</tr>
</tbody>
</table>

Not surprisingly, the screening for Project SPRUCE enrollment affected the occupational and industrial distribution too. The SPRUCE group showed larger proportions from professional and clerical and sales occupations, and fewer workers from the construction industry.

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Percent of general caseload</th>
<th>Percent of Test group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional and managerial</td>
<td>9%</td>
<td>7%</td>
</tr>
<tr>
<td>Clerical and sales</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Service</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Other</td>
<td>67</td>
<td>68</td>
</tr>
</tbody>
</table>

Industry

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Percent of general caseload</th>
<th>Percent of Test group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing</td>
<td>50</td>
<td>45</td>
</tr>
<tr>
<td>Contract construction</td>
<td>11</td>
<td>19</td>
</tr>
<tr>
<td>Wholesale and retail trade.</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Services</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>Other nonmanufacturing</td>
<td>18</td>
<td>17</td>
</tr>
</tbody>
</table>

Relative Incidence of Services

The SPRUCE project provided a significant number of services to UI claimants that are not typically available. To a considerable extent, the components of the SPRUCE program may be defined in terms of these services. Four months after the close of Phase II, a check of ES records produced the following summary of services furnished the Test and Control groups, respectively:

<table>
<thead>
<tr>
<th>Number of persons served</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRUCE Office</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Total Phase II claimants</td>
</tr>
<tr>
<td>In-depth interviews</td>
</tr>
<tr>
<td>ES applications</td>
</tr>
<tr>
<td>No service recorded beyond visits</td>
</tr>
<tr>
<td>Counseling</td>
</tr>
<tr>
<td>Testing</td>
</tr>
<tr>
<td>Training</td>
</tr>
<tr>
<td>Vocational rehabilitation (medical)</td>
</tr>
<tr>
<td>Education</td>
</tr>
<tr>
<td>Job-search assistance</td>
</tr>
<tr>
<td>Job development</td>
</tr>
<tr>
<td>Job referral</td>
</tr>
<tr>
<td>Placement</td>
</tr>
</tbody>
</table>

a. Not covered in regular reporting system.
b. Applications for service (Form ES67) were prepared for Test clients during the in-depth interview at the SPRUCE Office in those cases for which no Local Office record was found; the other 356 had their applications transferred to Project SPRUCE from their L.O.'s.

c. Includes 33 of the 34 who terminated before the in-depth interview could be done. Among the remaining 66 were nine who received initial diagnoses of major need (training, education, or rehabilitation service), but accepted no implementation. The Project experience with respect to refusal of service was so slight, and the observable relationship between motivation and incentive payments so vague, that little can be said or substantiated concerning those elements of evaluation. Altogether, 19 others were recorded as declining offered services in the three major categories, but they accepted alternative service plans.

The figures show clearly that 56 percent of the Control group received no services beyond registering and visiting at the regular Local Offices. On the other hand, because of the special attention made available by Project SPRUCE, only 21 percent of the Test group failed to receive defined services at the SPRUCE Office.

Although the Test group was smaller than the Control group (482 vs. 542), twice as many in Test as in Control received counseling, testing, and job-development services; one-fifth more received job-referral service. Resulting placements benefited more than twice as many Test claimants as Control claimants (70 vs. 32) despite the fact that 50 Test claimants were still in training and not yet available for placement.

Training and vocational rehabilitation (medical) were multiplied sixfold in Project SPRUCE, benefiting 54 persons and 20 persons, respectively, in the Test group—as against nine and three Control claimants, respectively, who benefited through their regular Local Offices.
These differences must be viewed in conjunction with the fact that at time of intake three-fourths of the claimants in each group were rated job-ready. The frequent contacts with ES staff at the SPRUCE office may have revealed needs that were not initially recognized. But the Local Office staff, without such opportunity to develop fuller diagnoses, is relying on its initial judgment and concentrating its service on the known needs initially observed.

Groups singled out for service may differ in both positive and negative ways. Claimants were selected for particular service because they were apparently in need. That fact alone is likely to be predictive of greater difficulties in finding and maintaining employment. Or, conceivably, persons so selected and serviced might be a high success group just because of that. To establish clearly the relative effectiveness of a particular service we would have had to design a comparison between a group that needed and got the service and a group that needed but did not get the service. However, the fact that certain services may be reliably associated with positive or negative outcomes does provide useful information and constitutes a desirable beginning.

Only those categories which yielded significant relationships are discussed in the following sections.

Test Group Services and Employment

Test claimants who received services beyond initial interviews and application procedures were more likely to be unemployed at the 3-week and 13-week followup. Test claimants who were not selected for additional services appear to have a higher subsequent rate of employment. One might assume that this reflects the ability of Project staff to distinguish between those claimants who are most in need from those who are most likely to be able to function independently. By the 26th week, the employment rate in both groups had increased and the differences between them were no longer significant, even though the employment rate for the group which had received no additional services was still higher (64 percent vs. 52 percent).

Test claimants who received In-Depth Interviews (IDI) were also less likely to be employed, since 26 of the 34 who terminated before the IDI did so to accept employment. This group consequently showed a sizable and statistically significant advantage that was consistent at all three points of followup.

The category of desk interviews, which includes all interviews not classified elsewhere, was also highly related to employment. Those claimants who had desk in-

### Employment Status of SPRUCE Claimants at 26-week Followup, by Project Group and Selected Services Received

<table>
<thead>
<tr>
<th>Services</th>
<th>Test group</th>
<th></th>
<th>Control group</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Percent</td>
<td>Total</td>
<td>Percent</td>
</tr>
<tr>
<td></td>
<td>followup</td>
<td>employed</td>
<td>followup</td>
<td>employed</td>
</tr>
<tr>
<td>Total respondents</td>
<td>379</td>
<td>54.4</td>
<td>479</td>
<td>45.1</td>
</tr>
<tr>
<td>Received</td>
<td>293</td>
<td>51.5</td>
<td>209</td>
<td>42.1</td>
</tr>
<tr>
<td>Not received</td>
<td>86</td>
<td>64.0</td>
<td>270</td>
<td>47.4</td>
</tr>
<tr>
<td>Job-search plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>174</td>
<td>46.6</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Not received</td>
<td>205</td>
<td>61.0</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Job development</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>88</td>
<td>53.4</td>
<td>51</td>
<td>45.1</td>
</tr>
<tr>
<td>Not received</td>
<td>291</td>
<td>54.6</td>
<td>428</td>
<td>45.1</td>
</tr>
<tr>
<td>Testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>26</td>
<td>38.5</td>
<td>22</td>
<td>27.3</td>
</tr>
<tr>
<td>Not received</td>
<td>353</td>
<td>55.5</td>
<td>457</td>
<td>46.0</td>
</tr>
<tr>
<td>Counseling</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>75</td>
<td>48.1</td>
<td>56</td>
<td>32.1</td>
</tr>
<tr>
<td>Not received</td>
<td>300</td>
<td>56.0</td>
<td>423</td>
<td>46.8</td>
</tr>
<tr>
<td>Referral</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>180</td>
<td>55.6</td>
<td>162</td>
<td>14.4</td>
</tr>
<tr>
<td>Not received</td>
<td>199</td>
<td>53.3</td>
<td>317</td>
<td>45.2</td>
</tr>
<tr>
<td>Placement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>62</td>
<td>72.6</td>
<td>27</td>
<td>54.6</td>
</tr>
<tr>
<td>Not received</td>
<td>317</td>
<td>50.8</td>
<td>452</td>
<td>44.5</td>
</tr>
<tr>
<td>Training</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>12</td>
<td>( )</td>
<td>6</td>
<td>( )</td>
</tr>
<tr>
<td>Not received</td>
<td>367</td>
<td>55.0</td>
<td>473</td>
<td>45.5</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>9</td>
<td>( )</td>
<td>3</td>
<td>( )</td>
</tr>
<tr>
<td>Not received</td>
<td>377</td>
<td>54.4</td>
<td>476</td>
<td>45.4</td>
</tr>
<tr>
<td>Vocational rehabilitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td>9</td>
<td>( )</td>
<td>3</td>
<td>( )</td>
</tr>
<tr>
<td>Not received</td>
<td>370</td>
<td>54.6</td>
<td>476</td>
<td>45.2</td>
</tr>
</tbody>
</table>

* Not computed: base too small.
terviews were less likely to be employed. At the 3-week followup, 68.3 percent of those Test claimants who had not had desk interviews were employed, as compared with 40.9 percent of those who had such interviews. Again, such results probably indicate that Project staff worked most with those claimants who were in need. It is impossible to state that desk interviews were not necessary or effective. It is, for example, quite possible that the employment rates in the interviewed group would be even less if such additional attention were withheld. In any case, it is fairly clear that not having such interviews scheduled probably reflects some positive evaluation by a UI interviewer. While the differences were slightly less, those in the Test group who had no desk interviews maintained their advantage at 13 weeks and at 26 weeks. At the final followup, 71.9 percent of the 89 respondents who had no interviews were still employed. This compares with 49.3 percent of the interviewed respondents.

Many of the services provided by SPRUCE appear to have some predictive value for negative outcomes. In addition to more services, in-depth interviews, and desk interviews, the development of a Job Search Plan and job-search followup were substantially related to being unemployed. However, in cases where job-search assistance and followup were known to have led to claimant reemployment (without ES placement service), this outcome was more than temporary; such reemployed claimants tended to maintain employment. At the 26-week followup, 17, or 81 percent, of 21 such respondents were still working.

Generally, Test claimants placed by SPRUCE were much more likely to be employed at each of the followup points than those who found employment on their own. It appears that a larger proportion of claimants who were provided with ES placement services at the SPRUCE office (Test) tended to maintain employment than either those who did not receive such service at all or who received it at a regular local office (Control). Their terminal employment rate (73 percent) was closest to that achieved by the claimant group who found reemployment by themselves as a result of job-search planning.

Test Group Termination Status and Employment

As one might expect, the exhaustion of benefits is an excellent predictor of unemployment. Claimants who exhaust are not as likely to find employment later. While the differences decreased over time, they were quite large at all followup points. About 66 percent of the respondents had exhausted their benefits. Of this group, 68.8 percent were unemployed at 3 weeks in comparison with only 21.8 percent unemployed in the nonexhaustee group. The 13-week followup revealed little change; benefit exhaustion was still highly related to unemployment. By the 26-week followup, 58.5 percent of the exhaustees were still unemployed, while unemployment had fallen to 19.7 percent in the nonexhaustee group. To put it another way, 80.3 percent of the 127 respondents who had not exhausted their benefits were employed after 26 weeks following the termination of UI services. It is apparent that the majority of claimants who exhaust their benefits can be expected to be out of work later on.

On the other hand, terminating enrollment in order to go to work is an excellent predictor of employment: 3 weeks later, 96.2 percent of persons who terminated for that reason were still working. Of those who terminated enrollment for other reasons, only 31.5 percent were employed. By the 13-week point, 91.2 percent in the "to work" group were employed; and, by the 26-week point, 89.8 percent were still employed, in comparison with an employment rate of 42.2 percent in the remainder of the claimant group. Even though these differences were somewhat smaller than at the initial followup point, they were highly significant nevertheless.

Claimants were terminated if they ceased to file; but their failure to file was apparently not due to their finding employment. At least, of the 14 non-filers who responded to the followup questionnaire, only one was employed at 3 weeks; at the 13-week followup, two were employed and, by the 26th week, three had found jobs. At this point, the differences were no longer statistically significant. If greater numbers of claimants had been involved in this category, the differences in employment rates would have been beyond a chance expectancy (25 percent vs. 55.7 percent).

Those claimants who had had their collection of benefits interrupted by a spell of unemployment were more likely to be employed at followups than those without such interruption of claim. Of the 122 respondents who had a prior claim-interruption for work, 73 (59.8 percent) were employed at the 3-week followup; claimants who had no prior interruption for work were less apt to be employed at that time (42.3 percent). Even though at the subsequent followup points, the differences fell short of acceptable levels of significance, the fact that a claimant had his enrollment interrupted for work appeared to be a consistently favorable indication. At the final point of followup, 63.4 percent of the claim-interrupted group were employed, as compared with 51.5 percent of those claimants who had no such interruption.

Test Group Services and UIB Exhaustion

There are many significant relationships between exhaustion and services provided for clients. All of them indicate that the exhaustion rate is higher in cases where service was provided. Again, this finding does not suggest that the service led to higher exhaustion rates. Rather, it indicates that the SPRUCE counselors and staff were quite sensitive to the needs of the SPRUCE claimants and were offering service to those who needed it most.

The first three items in the table (page 17), the relationships with interviewing, suggest either that claimants with higher probability of success were not felt to need such interviews, or that some selection factor such as early return to a job, prevented them from being interviewed.

Test claimants who received more than four counseling interviews, or job-search planning and followup, were very likely to be claimants who were recognized as having employability problems. SPRUCE attempted to provide help; Project staff spent considerable effort on these
Significant Relationships Between Services Provided Test Claimants and Exhaustion

<table>
<thead>
<tr>
<th>Services</th>
<th>Receiving service</th>
<th>Not receiving service</th>
<th>Chi Square</th>
<th>Significance level (Probability of chance occurrence)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent exhausting</td>
<td>Number</td>
<td>Percent exhausting</td>
</tr>
<tr>
<td>Desk interview</td>
<td>326</td>
<td>82.2</td>
<td>92</td>
<td>46.7</td>
</tr>
<tr>
<td>Service beyond initial interview</td>
<td>330</td>
<td>86.2</td>
<td>88</td>
<td>48.9</td>
</tr>
<tr>
<td>In-depth interview</td>
<td>388</td>
<td>79.1</td>
<td>30</td>
<td>33.3</td>
</tr>
<tr>
<td>Job-search plan developed</td>
<td>191</td>
<td>86.9</td>
<td>227</td>
<td>65.9</td>
</tr>
<tr>
<td>Job-search followup</td>
<td>166</td>
<td>88.0</td>
<td>252</td>
<td>65.5</td>
</tr>
<tr>
<td>Job-development contact</td>
<td>101</td>
<td>83.2</td>
<td>317</td>
<td>71.6</td>
</tr>
<tr>
<td>Referral</td>
<td>200</td>
<td>80.0</td>
<td>218</td>
<td>69.3</td>
</tr>
<tr>
<td>Training need identified</td>
<td>73</td>
<td>84.9</td>
<td>345</td>
<td>72.2</td>
</tr>
<tr>
<td>Referred to training</td>
<td>45</td>
<td>91.1</td>
<td>373</td>
<td>72.4</td>
</tr>
<tr>
<td>Enrolled in training</td>
<td>34</td>
<td>91.2</td>
<td>384</td>
<td>72.9</td>
</tr>
<tr>
<td>Medical rehabilitation need identified</td>
<td>32</td>
<td>96.9</td>
<td>386</td>
<td>72.5</td>
</tr>
<tr>
<td>Referred for medical rehabilitation</td>
<td>20</td>
<td>100.0</td>
<td>398</td>
<td>73.1</td>
</tr>
<tr>
<td>Enrolled in medical rehabilitation</td>
<td>16</td>
<td>100.0</td>
<td>402</td>
<td>73.4</td>
</tr>
<tr>
<td>Counseling</td>
<td>100</td>
<td>90.1</td>
<td>210</td>
<td>65.6</td>
</tr>
</tbody>
</table>

Overall Exhaustion Outcomes: Test vs. Control

We are concerned here about the overall effect of the SPRUCE system as evidenced by comparisons of Test group outcomes and Control group outcomes. Has SPRUCE brought about a lower rate of UI benefit exhaustion in the Test group as compared with the Control group?

The analysis of benefit exhaustion as an outcome indicated, at first, that the SPRUCE program may have had some positive effect. Exhaustion vs. nonexhaustion was run against Test and Control group status. It appeared that 72.1 percent of the Control claimants exhausted their benefits in comparison with a smaller percentage (65.1 percent) of Test claimants. Since the nonexhaustion group included a large group of claimants who had been enrolled in training, as well as substantial numbers of claimants terminated for reasons like expiration of the benefit year, etc., the analysis was rerun. The most appropriate analysis, it was thought, should involve only those claimants for whom exhaustion was a possibility. Essentially, this meant comparative analyses of the outcomes of "exhaustion" and "to work."

Analyzed in this way, the Test and Control groups did not differ in terms of their exhaustion rates, either for the original total sample or for the deselected, equated groups. Originally, it was observed that 74.2 percent of the Test group exhausted their benefits as compared with 78.5 percent of the Control group; 25.8 percent of the Test group terminated "to work" as compared with 21.5 percent of Control claimants. These differences yielded a nonsignificant Chi Square of 2.10 (p > .10). The data obtained from the equated sample were very similar. Reference to the following table indicates that the exhaustion rate for the Test group was 74.4 percent, compared with 77.9 percent for the Control group. In this case, 25.6 percent of Test claimants terminated, "to work," while the rate for Control claimants was 22.7 percent. Even though the percentage differences were very slightly altered, the Chi_Square obtained was reduced to 1.19; and, of course, it was still nonsignificant (p > .25). The observed difference is nearly 4 percentage points; however, a difference of that magnitude could occur by chance more than one-fourth of the time.

Exhaustion Outcomes of Equated Groups

<table>
<thead>
<tr>
<th>Group</th>
<th>Exhaustions</th>
<th>Non-exhaustions</th>
<th>Percent exhausting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test</td>
<td>294</td>
<td>101</td>
<td>74.4</td>
</tr>
<tr>
<td>Control</td>
<td>325</td>
<td>92</td>
<td>77.9</td>
</tr>
</tbody>
</table>

It may be concluded that if SPRUCE had an effect on the exhaustion of UI benefits, it was minimal. Two reservations, however, must be stated concerning this. The first, in regard to the meaning of statistical significance testing, is that it has a directional limitation:

"It is worth reminding ourselves once more that low significance does not necessarily imply absence of relationship . . . The significance level is used to evaluate the evidence. The lower the risk, the higher the significance of the evidence. Highly significant evidence is taken to show the existence of the relationship. Nonsignificant evidence shows nothing one way or the other."

More important is the recognition that the exhaustions under study occurred not in the kind of high-demand labor market which gave rise to the SPRUCE concept, but in a period of economic decline and limited employment opportunities. Some basic investigations still need to be made into the theoretical conditions of elasticity in the exhaustion rate.

Overall Employment Outcomes: Test vs. Control

It may be stated with considerable confidence, however, that the SPRUCE system did have a significant overall effect on employment. The table below shows the results obtained when tests were run on the original whole Project sample and on the deselected equated sample.

Gains in employment were indicated for both the Test group and the Control group at each followup; but it appeared that the SPRUCE program resulted in higher rates of claimant employment for the Test group at both 3 and 26 weeks. Employment gains by Control claimants at the 13-week point reduced Test-Control differences to such an extent that they could be accounted for by uncontrolled "chance" factors. The reanalysis, in which equated groups were tested, did not alter these basic conclusions.

In this final analysis, 48 percent of the Test group and 39 percent of the Control group were employed at 3 weeks. As reference to the table below will indicate, the difference of 9 percent was statistically significant. At 13 weeks, 49 percent of the Test group and 45 percent of the Control group were employed. The difference of about 4 percent was not significant. At 26 weeks, 55 percent of the Test group and 46 percent of the Control group were employed. The difference in employment percentages between the groups was again statistically significant.

There was, therefore, a definite effect on employment following termination of SPRUCE services, and this effect could still be observed for as long as 6 months. Comparison of the different trends during this period is interesting. The Test group started with about a 9-percent advantage at 3 weeks. By 13 weeks, the Control group had increased in rate of employment while the Test group did not. From this point on, the rate for the Control group did not show much further increase; on the other hand, the Test group climbed even higher in employment. The implication may be that SPRUCE not only had an immediate effect on employment but that some SPRUCE claimants actually benefited from the services following a considerable length of time. This long-term difference and the fact that it emerged more than 3 months later, suggests that SPRUCE may have had effects that might turn out to be relatively enduring for some claimants. These trends may be observed in the chart on the next page.

1. This effect is of considerable importance. It is more usual to find that the effects of experimental programs produce short-term gains that dissipate over time periods of even moderate length.

### Employment Outcomes of Test and Control Groups at Followup Periods

<table>
<thead>
<tr>
<th>Followup period</th>
<th>Test group</th>
<th>Control group</th>
<th>Chi Square</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Employed</td>
<td>Not employed</td>
<td>Percent employed</td>
</tr>
<tr>
<td>Original Groups</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 weeks</td>
<td>203</td>
<td>226</td>
<td>47.3</td>
</tr>
<tr>
<td>13 weeks</td>
<td>203</td>
<td>212</td>
<td>48.9</td>
</tr>
<tr>
<td>26 weeks</td>
<td>204</td>
<td>169</td>
<td>54.7</td>
</tr>
</tbody>
</table>

| Equated Groups  |            |               |               |           |               |               |       |
| 3 weeks         | 184        | 197           | 48.3         | 169       | 263           | 39.1         | 6.567^b |
| 13 weeks        | 180        | 186           | 49.2         | 162       | 233           | 45.0         | 1.186  |
| 26 weeks        | 183        | 148           | 55.3         | 186       | 218           | 46.0         | 5.859^b |

^a. Significant at 1 percent level.
^b. Significant at 2 percent level.
RATE OF EMPLOYMENT AT FOLLOWUP INTERVALS

(Equated Groups)

Percent Employed

Weeks After Termination From Project
Interviewing and Counseling Processes in Client Evaluation

In the planning phase of Project SPRUCE, it was recognized that the interviewing and counseling processes would be the major source of the background information and insights necessary for effective diagnostic and prognostic appraisals. A means was therefore sought to assure maximum and effective utilization of the case findings that are developed by these processes.

Upon analysis of Counselor notes found in Trial Run case files, the following checklist was drawn up for use as a standardized summary of evaluative information gathered in employment and counseling interviews.

<table>
<thead>
<tr>
<th>Name</th>
<th>Social Security No.</th>
<th>Counselor or Interviewer</th>
</tr>
</thead>
</table>

- **A. Disabilities (underline appropriate one)**
  1. Physical
  2. Epilepsy, emotional, language
    - a. actually limiting work possibilities
    - b. actually not limiting work possibilities
    - c. unknown
    - d. individual compensating for disability
    - e. Individual using disability as a means for justifying unemployment
    - f. none

- **B. Attitude toward reemployment**
  1. Interferes with reemployment
    - Remarks:
      - a. realistic
      - b. unrealistic about capabilities
      - c. unrealistic about job availability
      - d. unrealistic about salary
      - e. unrealistic about working conditions
      - f. changing attitudes prevent reemployment
      - g. other remarks:
  2. Does not interfere with reemployment

- **C. Cooperation**
  1. Not cooperative
  2. Cooperative
  3. Does not accept referrals (other agencies and job interviews)
    - a. misses appointments or is late
    - b. any other reason:

- **D. Alcohol or drug problem (check one if applicable)**
  1. Yes, if so
    - a. interferes with job
    - b. does not interfere with job
  2. No

- **E. Previous employer’s recommendation**
  1. Does interfere with reemployment
  2. Does not interfere with reemployment
  3. Will help employment

- **F. Environmental conditions that limit job success**
  1. Child care

- **G. Personal conditions that limit job access**
  1. Criminal record
  2. Minority membership
  3. Age
  4. Can get job but cannot hold job
  5. Other (specify)

- **H. Interpersonal relationships**
  1. Do interfere with job possibilities
    - a. marital status
    - b. supervisor conflicts
    - c. peer
  2. Do not interfere with job possibilities
  3. Other (specify)

- **I. Personal appearance**
  1. Does interfere with job possibilities (specify)
  2. Does not interfere with job possibilities

- **J. Medication**
  1. Does interfere with job possibilities (specify)
  2. Does not interfere with job possibilities

- **K. For cases where success is not apparent (circle one)**
  1. Problems are resolved but new problems constantly emerge
  2. The problem(s) that limit employment are highly consistent and cannot be resolved over time
  3. Problems likely to be resolved over a longer period of time
    - Remarks:

- **L. Counselor notes suggesting critical incidents**
  1. Unfavorable
  2. Favorable

- **M. Factors that increase probability of work (specify)**
Counselors and Interviewers who used it in 182 of the Phase II Test group cases have found the checklist helpful in sharpening diagnostic insights. They accordingly have advanced the idea of using it as the basis of a new instrument yet to be developed: a questionnaire to be answered by the client himself to achieve a self-appraisal, enhancing his participation and commitment in the planning and rehabilitation process.

Statistical analysis of the 182 checklist records (all of which were on Test group claimants) was limited to the 156 cases whose subsequent termination status became "exhaustion of UI benefits" or "UI claim discontinued for employment." Among these, the exhaustion rate was 84.6 percent; employment at the 26-week followup was only 29.4 percent (based on 119 respondents at that point). As expected, these rates for a particular service group (special diagnostic effort or counseling) compare unfavorably with the overall Test group rates of 74 percent exhaustion and 55 percent endpoint employment.

Given a population in which base rates of failure are so excessively high, it is surprising that any other identifying features could be found that would be related significantly either positively or negatively, to outcomes that were considered criteria; nevertheless, each variable on the Interview Checklist was tested for a possible relationship to post-SPRUCE employment and exhaustion of UI benefits. A summary of these relationships is presented in a table (see page 23) at the end of this chapter. In the following pages, a number of the more salient factors have been given further attention. At least a few of the characteristics that counselors are able to note may prove to have predictive value.

Physical Disability

Unemployment rates among the 37 physically disabled claimants were consistently higher than for the 105 nondisabled (3 weeks—67.6 percent vs. 52.4 percent; 13 weeks—79.4 percent vs. 59.2 percent; 26 weeks—83.9 percent vs. 65.9 percent), but the difference was not statistically significant at any point of followup. A larger sample of such claimants might have indicated differences beyond chance; however, given the present data, we can only note that the observed difference was consistent over time. There were also no significant differences in exhaustion that could be attributed to the fact of physical disability; but the observed percentage of exhaustion was slightly higher in the disabled group (92.7 percent vs. 81.7 percent). Although these results are not significant, the clients referred for medical rehabilitation all exhausted and failed to maintain employment. Physical disability is very likely a real indicator of problems in this group.

Emotional Disability

For 17 (10.9 percent) of the claimants in the total sample some degree of emotional disturbance or psychomotor involvement (including obvious language difficulties as well as epilepsy) was indicated. While such a factor is commonly held to produce special adjustment difficulties, the data for this category showed no relationship to either exhaustion or employment.

Attitudinal Interference with Reemployment

Sixty-seven (42.9 percent) of the 156 respondents were checked as having attitudes that would interfere with reemployment—a very high percentage. Perhaps this is a major factor in the referral of many claimants to counseling services. Of the 62 checked claimants who provided initial followup information, 30.6 percent were employed at 3 weeks. Of the 80 claimants who were checked as not having interfering attitudes, 53.8 percent were employed at the 3-week point. These differences were statistically significant by the Chi Square test ($\chi^2 = 6.67$, $p < .10$; i.e., a Chi Square this large could be found by chance less than 1 time out of 100). The rapid rise in unemployment in the "no interference" group eliminated all differences at the subsequent followup points. Employment in the larger group had declined to 40.0 percent by 13 weeks and to 32.3 percent by 26 weeks. This factor was not related to benefit exhaustion.

Unrealistic Attitudes

Those 58 claimants who were seen as having unrealistic attitudes (for example, about personal capabilities, job availability, probable salary, and working conditions) were also unemployed in greater numbers at the initial followup. At that time, only 29.6 percent of those indicated as "unrealistic" were employed, compared with 52.3 percent employment in the rest of the claimant population. These differences were statistically significant ($\chi^2 = 6.09$, $p < .02$). As in the previous case, the difference disappeared as the rest of the group "caught up" in unemployment. By 26 weeks past the termination of SPRUCE service, 70.8 percent of the former and 70.4 percent of those with presumably realistic attitudes were out of work. An unrealistic or other type of potentially interfering attitude appears to be related to early unemployment but not to eventual employment outcomes.

Types of Interfering and Unrealistic Attitudes

Fifty-nine claimants were checked as having specific types of interfering and unrealistic attitudes. Almost half (42.4 percent) were identified as being unrealistic about their capabilities. The next most frequently-noted limiting attitude seemed to involve a lack of realism about job availability. The type of attitude did not seem to be related to early employment; however, specific types of attitudes may be related to later failure. Perhaps additional data should be obtained on claimants, sorted into attitude categories. By the 26-week point, the differences were growing larger ($\chi^2 = 8.58$, d.f. = 5, $p < .10$). Even though the cell frequencies were not sufficient to establish whether or not the type of attitude will really affect employment outcomes, it appears that those who are seen as unrealistic about their personal capabilities are likely to be employed at a higher rate than those with other types of limiting attitudes. Claimants in this category actually showed a slightly increasing rate of employment over time.

The type of attitude expressed was related to benefit exhaustion ($\chi^2 = 12.52$, d.f. = 5, $p < .05$). Again, the cell frequencies were so small as to restrict interpreta-
tion; however, exhaustion rates were noticeably higher for that group of claimants who were considered unrealistic about their own capabilities (96.0 percent). Even though the number is very small, we should look carefully at those claimants who were checked as unrealistic about salary. There were only six of them, but all exhausted.

Alcohol or Drug Problem

This category was not significantly related to either employment or to exhaustion. It should be noted, however, that the number of claimants involved was so low as to make a statistically significant result impossible (N = 4). Some categories are difficult to use in evaluation because of their infrequent application. It is, in fact, probable that the actual incidence of drug abuse in this population is much higher than indicated. We might speculate that such a category represents a taboo topic: claimants don't volunteer the information and interviewers don't ask.

Nevertheless, it is worth observing that all four of these claimants did exhaust their benefits and that only one of the four held a job at any followup point. (One reported employment at 26 weeks.) It is interesting that the only claimant checked as having a problem to an extent that would actually interfere with his employment was the only one who held a job at any time.

State Conditions: Environmental and Personal

The presence of limiting environmental conditions (child care, care of others, transportation, etc.) did not seem to make any difference in either employment or exhaustion rates. A further analysis by type of condition also failed to reveal significant differences. Even the consistently higher percentages in the negative categories were not high enough at any point. Even though "common sense" dictates that so-called limiting conditions might do just that, other conditions may be so compelling or numerous that factors which might be critical to success in a more "employment-prone" group just don't count. The fact seems to be that claimants who are referred for counseling are going to (1) exhaust their benefits, and (2) generally be unemployed.

The presence of limiting personal conditions (criminal record, minority group membership, age, etc.) was also unrelated to outcomes. As in the previous case, the percentages in the negative categories tended to be higher but the observed differences were not in excess of chance probabilities. In this category, however, an analysis by type of condition proved more fruitful. The magnitude of the differences increased from the point of initial followup; and, by the 26-week point, a significant Chi Square was obtained ($\chi^2 = 11.93$, d.f. = 4, $p < .02$).

The most limiting of personal handicaps (for reemployment) was minority-group status. By 26 weeks, only about 11.8 percent of this group was still employed (four of a total of 34) as opposed to 54.5 percent of those handicapped by "other" factors. The numbers involved in some of the categories were so small as to render any further conclusions doubtful. (For example, all of those considered by the Counselor as able to obtain jobs but unable to hold them were found at followup to be unemployed, but there were only three of them altogether.)

While the type of personal condition was related to employment, it was unrelated to benefit exhaustion.

Interpersonal Relationships

While the type of interfering interpersonal relationships (unsatisfactory marital status, conflicts with supervisors, peers, etc.) was not related to exhaustion or to employment outcomes, claimants checked as having problems in the area of interpersonal relationships of the sort that might be expected to interfere with job possibilities tended to have higher rates of employment at 13 weeks ($\chi^2 = 5.96$, $p < .02$). However, by the 26-week point, there was no difference in favor of either group. Inspection of the percentages at each point suggests a higher initial rate of employment for the "problem" claimants, followed by sudden loss. Only 17 claimants were in this category. There was no relationship to benefit exhaustion.

“Success Not Apparent” Group

In this category, counselors were asked to indicate those claimants for whom success was not apparent, as well as some classification of the type of problem situation (temporary, cannot be resolved, new problems constantly emerge, etc.). The majority of claimants in the "success not apparent" category were identified as having problems that would be resolved over time (43 of the 54). (It may be noted that, nevertheless, the exhaustion rate in this category was 92.6 percent and that 75.0 percent were out of work by the 26th week.)

An analysis according to the type of problem category revealed no relationships to exhaustion or to employment outcomes. On the other hand, the "no problem" people were more likely ($\chi^2 = 7.12$, $p < .01$) to be employed at 3 weeks (52.1 percent vs. 27.1 percent). By 26 weeks, however, enough had lost jobs so that the unemployment rates of the groups were too close to yield statistically significant differences (yes, 75.0 percent; no, 68.7 percent). While there appeared to be some tendency for more of the people with problems to exhaust (92.6 percent vs. 80.4 percent), such a difference might occur by chance as often as 10 times in 100.

Critical Incidents

Counselors noted critical "incidents" for 75 claimants. Whether or not such incidents were seen as favorable or unfavorable made no apparent difference to employment or exhaustion, but the fact that such an incident was observed at all did make a difference. Claimants for whom critical incidents were noted were more often employed (53.5 percent vs. 33.8 percent) at the 3-week point ($\chi^2 = 4.64$, $p < .05$). Perhaps this reflects the fact that the majority of incidents noted were seen as favorable (90.0 percent). This difference was not significant at 13 or at 26 weeks, although the critical-incident group did, in fact, maintain a higher rate of employment. There was no relationship to exhaustion.
Factors Favoring Employment

While those claimants listed as having positive factors in favor of employment (skilled, motivated, etc.) maintained proportionally higher rates of employment at all points of followup, the difference was sufficiently beyond chance only at the 13-week point ($\chi^2 = 8.18, p < .01$). At this time, 46.8 percent of the claimants who were seen as characterized by one or more favorable factors were employed, compared with only 21.7 percent employment for the rest of the group. There was no relationship to exhaustion.

When these claimants were considered by type of factor, no positive relationships appeared. Those claimants characterized as willing and motivated, or as having a particular skill, had the highest proportional rates of employment. The greatest differences were in the initial weeks; however, at no time were these differences statistically significant. The type of factor was also unrelated to exhaustion.

Summary of Results

The Relationship of Interview Checklist Notes to Outcome

<table>
<thead>
<tr>
<th>Condition identified on checklist</th>
<th>Outcome</th>
<th>Percent employed</th>
<th>Percent exhausting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 weeks</td>
<td>13 weeks</td>
<td>26 weeks</td>
</tr>
<tr>
<td>Physical disability</td>
<td>32</td>
<td>21</td>
<td>16</td>
</tr>
<tr>
<td>Emotional disability</td>
<td>43</td>
<td>21</td>
<td>10</td>
</tr>
<tr>
<td>Attitudes interfere with reemployment</td>
<td>31</td>
<td>31</td>
<td>26</td>
</tr>
<tr>
<td>Attitudes unrealistic</td>
<td>30</td>
<td>32</td>
<td>29</td>
</tr>
<tr>
<td>Not cooperative</td>
<td>33</td>
<td>33</td>
<td>13</td>
</tr>
<tr>
<td>Alcohol or drug problem</td>
<td>33</td>
<td>33</td>
<td>25</td>
</tr>
<tr>
<td>Previous employer record interferes</td>
<td>37</td>
<td>35</td>
<td>27</td>
</tr>
<tr>
<td>Previous employment record does not interfere</td>
<td>57</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Environmental condition interferes</td>
<td>38</td>
<td>33</td>
<td>25</td>
</tr>
<tr>
<td>Personal condition interferes</td>
<td>41</td>
<td>33</td>
<td>27</td>
</tr>
<tr>
<td>Interpersonal relationship problems interfere</td>
<td>65</td>
<td>65</td>
<td>40</td>
</tr>
<tr>
<td>Personal appearance interferes</td>
<td>30</td>
<td>38</td>
<td>32</td>
</tr>
<tr>
<td>Medical conditions interfere</td>
<td>33</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Success not apparent (problems interfere)</td>
<td>27</td>
<td>29</td>
<td>25</td>
</tr>
<tr>
<td>Critical incidents noted</td>
<td>54</td>
<td>40</td>
<td>38</td>
</tr>
<tr>
<td>Unfavorable critical incidents</td>
<td>29</td>
<td>14</td>
<td>---</td>
</tr>
<tr>
<td>Employment-facilitating factors present</td>
<td>47</td>
<td>47</td>
<td>36</td>
</tr>
</tbody>
</table>
Prediction of Insurance Exhaustion

To identify personal characteristics of UI claimants that are closely associated with likelihood of UI benefit exhaustion, a series of sensitive and comprehensive statistical analyses was made of the records of the first 200 claimants enrolled by Project SPRUCE for the Control group (89 from the Trial Run and the remainder from the first month of Phase II).

Control group records were used exclusively because of the possibility that in Test group cases the outcome (exhaustion or nonexhaustion) could be affected by the intervening Project activity as well as by the claimant's personal characteristics. Further—since nonexhaustion could reflect technical conditions, or regular UI and ES program activity, as well as reemployment—the analysis excluded those whose claims were discontinued because of benefit-year expiration, disqualification, enrollment in training, death, or withdrawal for unknown reason. This left 185 in the analysis, comprised as follows: Exhaustees 136 (51M, 85F); Nonexhaustees 49 (28M, 21F).

Because the primary-factor group emerging from the analysis was sex-related or sex-differentiated, separate lists of exhaustion identifiers were developed for males and for females as shown on the following pages. These checklists are the versions used in an experimental trial started in March 1972 to test their applicability and to explore the possibility of finding other significant factors available to the Interviewer through direct observation (physical appearance, speech, poise, attitude, etc.) or through access to additional information in the claimant's record. Not indicated in these versions is the original labelling of certain of the items as very highly predictive. These were items 1, 3, and 9 in the checklist for males, and items 1, 2, 7, and 10 in the checklist for females.

The experimental trial was run on about 1,000 claimants sampled from two large-city offices and two small-town offices by a selection procedure corresponding to the screening criteria used for Project SPRUCE enrollment, except that they were being selected now at their 3rd to 6th certifications (for early prediction), and that better statistical representation of males and of nonwhites was sought now.

When sufficient time has elapsed to complete the records on the outcomes of these cases, it is hoped that further analysis will determine how the prediction factors should be scored, updated, or changed to develop a true PIE (Prediction of Insurance Exhaustion) scale for general applicability. The end product may be useful both for directing claimants into service programs and for administrative purposes such as predicting claims loads.

Linkage of this effort to the work on Interview Checklist Notes may lead to even more fruitful approaches, involving recognition of various special claimant profiles, measurement of the effectiveness of counseling service, and commitment of claimants to service programs by self-appraisal.
Prediction of Insurance Exhaustion

Claimant: Name ___________ SSA No. ___________
L.O.# ___________ Interviewer ___________ Date ___________

Number of Certifications ___________
Weeks Worked in Base Year ___________
Expects recall? Claimant ___________ Employer ___________

Conflicting reasons for separation ___________

INSTRUCTIONS: Place a check (X) in the box in front of each factor that applies to this claimant.

Factors Associated with Higher Exhaustion Rate Among MALES

Income

Claimant’s total income in previous year was $8,000 or more.
Claimant’s total income in previous year was $4,500 - $7,999.

Education

Began, but did not complete high school.
Was a dropout from grade school, junior high, or college (years of schooling completed were 0 - 5, or 7, or 13 - 15).

Type of Unemployment

Reason for becoming unemployed was frictional unemployment or reduced employability, rather than occupational or economic causes.
Has a barrier to reemployment other than lack of education, lack of skill training, or obsolete skill.

Employment/Unemployment History

Total gainful employment less than 3 years.
Was unemployed for 17 to 29 weeks during the last 12 months.
Was unemployed 30 weeks or more during the last 12 months.

INTERVIEWER’S JUDGMENT: (May take into account additional factors observed in the interview or in the claims record. If the judgment made is not self-evident from the factors checked above, please add appropriate comment.)

Explanatory Comments

[ ] Expect exhaustion [ ] Do not expect exhaustion
### Factors Associated with Higher Exhaustion Rate Among FEMALES

**Income**
- [ ] Total family income in previous year was $6,000 or more.
- [ ] Hourly earnings on last full time job averaged $3.00 or more.

**Education**
- [ ] Completed less than 12 years of schooling.

**Type of Unemployment**
- [ ] Reason for becoming unemployed was frictional unemployment or reduced employability, rather than occupational or economic causes.
- [ ] Transportation or child care is a barrier to reemployment.
- [ ] Has a barrier to reemployment other than lack of education, lack of skill training, obsolete skill, transportation, or child care.

**Age**
- [ ] Over 55

**Employment/Unemployment History**
- [ ] Total gainful employment 3 years or more.
- [ ] Was unemployed for 17 to 29 weeks during the last 12 months.
- [ ] Was unemployed for 30 weeks or more during the last 12 months.

**INTERVIEWER'S JUDGMENT:** (May take into account additional factors observed in the interview or in the claims record. If the judgment made is not self-evident from the factors checked above, please add appropriate comment.)

**Explanatory Comments**
- [ ] Expect exhaustion
- [ ] Do not expect exhaustion
Costs and Benefits

Definitive Costs

The total expenditure of SPRUCE funds for the entire life of the Project was $388,457 — $270,804 for administration and $117,653 for incentive and allowance payments to clients. This compared with budgeted amounts of $276,431 for Project administration and $168,900 for SPRUCE payments to clients.

In addition, SPRUCE clients received $55,810 in allowance payments from MDTA Title II funds (out of $255,000 set aside from that source to supplement the SPRUCE budget) and $184,224 in UI benefits, during their association with the Project.

The SPRUCE payments to clients were distributed by type, as follows:

<table>
<thead>
<tr>
<th>Type of payment</th>
<th>Number of persons</th>
<th>Total weeks</th>
<th>Total amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service allowance</td>
<td></td>
<td>705</td>
<td>$52,461.30</td>
</tr>
<tr>
<td>During counseling</td>
<td>61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>During rehabilitation</td>
<td>1</td>
<td>7</td>
<td>$47,325.17</td>
</tr>
<tr>
<td>Service</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standby, pre-training</td>
<td>13</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Standby, post-training</td>
<td>9</td>
<td>33</td>
<td>$20,099.27</td>
</tr>
<tr>
<td>Training allowance</td>
<td>51</td>
<td>765</td>
<td>$65,191.75</td>
</tr>
<tr>
<td>Total</td>
<td>105</td>
<td>1,565</td>
<td>$117,653.05</td>
</tr>
</tbody>
</table>

- The total number of persons includes no duplications.
- The total amount of payments includes $2,656 in transportation allowances.

The administrative costs of operating the Project are detailed in the following summary. To the extent that these administrative costs include obligations peculiar to a research project — processing of Control claimants, followup efforts, services of research consultant, etc. — they presumably exceed the amount it would take to operate a permanent SPRUCE-type program. Furthermore, organization of such a permanent program could entail some reduction of the regular Local Office organization required for processing non-SPRUCE claimants.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries</td>
<td>$188,871.09</td>
</tr>
<tr>
<td>Personnel benefits</td>
<td>49,013.93</td>
</tr>
<tr>
<td>Space</td>
<td>16,432.32</td>
</tr>
<tr>
<td>Research consultant service</td>
<td>8,403.99</td>
</tr>
<tr>
<td>Communications</td>
<td>3,694.00</td>
</tr>
<tr>
<td>Supplies</td>
<td>1,782.79</td>
</tr>
<tr>
<td>Travel</td>
<td>1,172.77</td>
</tr>
<tr>
<td>Equipment</td>
<td>564.23</td>
</tr>
<tr>
<td>Transportation of things</td>
<td>539.51</td>
</tr>
<tr>
<td>Other</td>
<td>379.15</td>
</tr>
<tr>
<td>Total</td>
<td>$270,803.83</td>
</tr>
</tbody>
</table>

Initial Benefits

The table below, which shows claim duration, gives scant evidence that the SPRUCE system can reduce the duration of benefits — at least not when it is interposed after the 13th certification and under the kind of labor-market conditions that existed during the Project period.

However, the report chapter on the impact of the SPRUCE system develops the finding that — although the Test and Control groups did not differ significantly in their UI benefit exhaustion rates — there was a clear and enduring effect on post-SPRUCE employment, which was measured as a statistically significant advantage in the Test group of 9 percentage points at the 6-month followup. These 9 percentage points represent a Test group margin of 20 percent over the Control group baseline. In absolute numbers this means that more than 30 Test claimants were in jobs as long as 6 months after terminating from Project SPRUCE, who presumably would not have been in jobs if they were in the Control group.

Post-SPRUCE earnings, as analyzed from the followups thus far, reveal that both Test and Control claimants...
are equally liable to suffer early reductions in hourly earning rate from their pre-SPRUCE levels. Data from the 3-week followup show employed Test group respondents earning an average of $2.77 per hour compared to their pre-SPRUCE average of $3.10, and employed Control group respondents averaging $2.67 per hour compared to their pre-SPRUCE average of $3.03. In later followups, matched reports show both Test and Control respondents recovering their earning power:

<table>
<thead>
<tr>
<th></th>
<th>Test</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number reporting earnings</td>
<td>156</td>
<td>168</td>
</tr>
<tr>
<td>Average hourly rates reported</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13-week followup</td>
<td>$2.95</td>
<td>$2.94</td>
</tr>
<tr>
<td>26-week followup</td>
<td>3.11</td>
<td>3.08</td>
</tr>
<tr>
<td>Pre-SPRUCE</td>
<td>3.15</td>
<td>3.07</td>
</tr>
</tbody>
</table>

More intensive analysis, through determination of longitudinal impact on earnings, must await subsequent analysis of total earnings, to be based on special Social Security Administration followups.

Longitudinal Benefits

Through special processing of Social Security Account data, computer tapes are being made available to yield comparative Test and Control distributions of quarterly and annual earnings from October 1970 on. Other definitive outputs to be longitudinally realized, but which cannot be estimated by projection, include (a) refinement and validation of a prediction scale for early identification of potential exhaustees, and (b) emergence of a counseling instrument for client self-appraisal.

On a still wider social horizon, evaluation of longrange benefit should also address itself philosophically to the “musical chairs” question: In programming for the reemployment of UI claimants, are we going to build more chairs so as to accommodate everyone, or are we going to sharpen our skills for livelier participation in the elimination game of seating A only at the expense of unseating B?

1. Possibly relevant to this is another finding, that an overwhelming majority of employed respondents in both claimant groups were working for someone other than a previous employer (95 per cent in the first followup, and 89 per cent in the second and third followups).
Project Results: Implications

That SPRUCE represents a valuable approach now seems clearly established by a number of positive findings. It seems equally clear, too, that the SPRUCE experience may have a continuing impact, not as a definitive operation, but as an ongoing process of exploration.

It is satisfying to note that full exposure of the Test group to SPRUCE services has given it the advantage of a distinctly superior and durable post-SPRUCE employment rate over the partially-exposed Control group. But, of course, many questions of attribution remain open, such as the intrusion of the general economic recession, the extent of "creaming," the relative contribution of special rehabilitation services and concentrated application of conventional ES services, the failure to affect exhaustion rates, etc.

Even if all the remaining puzzles and uncertainties were resolved, the solutions would probably not be ultimate or permanent. For in the dynamic equilibrium of our open economy and open society, the continuous process of adjustment-feedback-readjustment assures continual discovery or redefinition of problems, and perpetual need of creative problem-solving.

Among the areas in which ongoing exploration is relevant to the questions cited above, are our own continuing studies toward effective classification of UI claimants to facilitate prediction of insurance exhaustion, to diagnose their motivations and job-readiness from analysis of individual work histories and patterns, and to learn how these profiles reveal the need for specific forms of intervention and the responsiveness of claimants to such intervention.

Parallel and pertinent activity is also known to be under way at such diverse facilities as the University of Western Ontario School of Business Administration: (to devise and evaluate a "tracking model" of how unemployed persons make use of government programs and seek employment; research sponsored by Unemployment Insurance Commission of Canada) and the Human Interaction Research Institute of Los Angeles (to find and evaluate ways of assessing the readiness of manpower program participants; research sponsored by U. S. Manpower Administration).

By such efforts, added to others—like the newly created unit in the Erie County Health Department for employment evaluation service to clients with placement problems, by a diagnostic team of medical, employment, and social service specialists—techniques are invented and knowledge is accumulated so that eventually a definitive program can be constructed to meet the need. Obviously, Project SPRUCE itself was one such contributory effort.

Most troublesome among the issues and open questions mentioned above are the restriction of employment opportunities by the economic recession and the failure of SPRUCE to reduce the exhaustion rate. However, they do logically seem to fit together. With our society and economy unable to eliminate cyclical fluctuations, participants in the system have had to be satisfied with the familiar adjustment and have learned to plan their lives within that framework. How elastic, then, can the exhaustion rate be? Is it modifiable in varying degrees under different economic conditions? Might earlier intervention be more effective?

Also related to this is the observation by Project staff that exhaustees were not returning to the SPRUCE Office for continuation of job-placement efforts. A brief attempt at instituting exhaustion interviews, to encourage and arrange continuing, regular contact and service, proved ineffective when only 16 out of the first 115 exhaustees who received this interview returned subsequently for service. Although 111 of them asserted that the Project had been helpful, only 48 felt it could help further by keeping them informed of future job openings; 62 felt it could give them no further help.

Analysis of the curious mixture of objective and subjective factors in the complex of ego responses that enter into program effectiveness, and particularly into the persistent exhaustion rate, will have to include some study of sources of placement other than the Employment Service, and of their relative contributions to job-finding for UI claimants. Do pre-exhaustion placements differ from post-exhaustion placements in this respect?

It also had been supposed initially that the Project's focus on service would, per se, delay discontinuation of claims in many instances, perhaps to the point of exhausting benefit rights, but that such short-run effects would be overshadowed by the now demonstrated improvement in the post-SPRUCE employment rate. Can the supposition that the longer time required for additional services actually contributes to the exhaustion rate be squared with the Project experience of Extended Benefits being claimed in equal proportion by the Test and Control groups during the period January-April 1971?

The demonstrated improvement of 9 to 10 percentage points in the post-SPRUCE employment rate—47 percent of Test group vs. 38 percent of Control group employed at the 3-week followup interval, and 55 percent of Test vs. 45 percent of Control group at the 6-month interval—is a real accomplishment, considering the numbers involved and the Chi-Square determination of probable significance at the .01 or .02 level. (See table, p. 18.)

But besides the many remaining questions, experimental replication is necessary, not only to confirm the experience but to apply it in ways that will test varying schemes of claimant classification until we can develop procedures for assignment of those specific individuals most likely to benefit from particular services. Coordinated analysis of accumulated information from Project SPRUCE and related explorations can be assimilated in many minor adjustments in policy and in programming of services, as well as in new instruments for evaluating claimants, to yield even greater gains at little additional cost to ongoing UI operations.

At the very least, Project experience suggests that intensification of standard ES Local Office services to UI claimants would have unquestionable value. The exploratory or experimental aspects of it pertain only to the administrative and organizational formats for the delivery
of these services and to the recordkeeping devices for their measurement and evaluation.

Evaluating the program in dollar terms, there is no conclusive evidence that the SPRUCE system can reduce the duration of benefits to effect savings in benefit payments. However, its superior record of reemployment may indicate that positive monetary values may be credited to it. SPRUCE not only had an immediate effect on employment, but some claimants actually benefited from the services following a considerable length of time. This long-term difference suggests that the effects of SPRUCE may be enduring. This will be measurable when longitudinal earnings data based on Social Security records become available.
Table 1. Characteristics of SPRUCE Enrollees by Initial Employability Rating and Termination Status

A. Test Group

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Total number enrolled</th>
<th>Job-ready</th>
<th>Not job-ready</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>UI claim</td>
<td>Other</td>
</tr>
<tr>
<td></td>
<td></td>
<td>discontinued</td>
<td>termination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for work</td>
<td>status</td>
</tr>
<tr>
<td>Total in test group</td>
<td>482</td>
<td>347</td>
<td>234</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Under 35 years</td>
<td>208</td>
<td>139</td>
<td>94</td>
</tr>
<tr>
<td>35-44 years</td>
<td>102</td>
<td>85</td>
<td>52</td>
</tr>
<tr>
<td>45-54 years</td>
<td>115</td>
<td>83</td>
<td>57</td>
</tr>
<tr>
<td>55-64 years</td>
<td>57</td>
<td>40</td>
<td>31</td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>235</td>
<td>160</td>
<td>113</td>
</tr>
<tr>
<td>Female</td>
<td>247</td>
<td>187</td>
<td>121</td>
</tr>
<tr>
<td>Ethnic group</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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continued
1. A. Test Group (continued)

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<td>234</td>
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Poverty level classification

| Public assistance recipient in family | 17 | 9 | 7 | 2 | — | 8 | 5 | 3 | — |
| Extenuated income for family size (in non-P.A. case) | 26 | 8 | 7 | — | 1 | 18 | 12 | — | 6 |
| Above poverty level | 439 | 330 | 220 | 78 | 32 | 109 | 63 | 26 | 20 |

Current spell of unemployment

| (at intake) | 1-3 weeks | 2 | 2 | — | 2 | — | — | — | — |
| 4-8 weeks | 29 | 24 | 14 | 8 | 2 | 5 | 1 | 2 | 2 |
| 9-13 weeks | 43 | 29 | 16 | 7 | 6 | 14 | 6 | 2 | 6 |
| 14-18 weeks | 207 | 146 | 96 | 38 | 12 | 61 | 35 | 12 | 14 |
| 19-26 weeks | 168 | 125 | 92 | 22 | 10 | 43 | 28 | 12 | 3 |
| 27-39 weeks | 21 | 14 | 12 | 1 | 1 | 7 | 6 | 1 | 1 |
| 40-52 weeks | 11 | 6 | 4 | — | 2 | 5 | 4 | — | 1 |
| 53 weeks or over | 1 | 1 | — | 1 | — | — | — | — | — |

Total unemployment in past 12 months (at intake)

| 1-3 weeks | 205 | 149 | 94 | 39 | 16 | 56 | 29 | 11 | 16 |
| 4-8 weeks | 212 | 153 | 105 | 35 | 13 | 59 | 35 | 16 | 8 |
| 9-13 weeks | 50 | 38 | 31 | 6 | 1 | 12 | 9 | 2 | 1 |
| 14-18 weeks | 15 | 7 | 4 | — | 3 | 8 | 7 | — | 1 |

Gainful employment

| Less than 1 year | 6 | 2 | 2 | — | 3 | 4 | 3 | 1 | — |
| 1-2 years | 36 | 25 | 19 | 6 | — | 11 | 5 | 4 | 2 |
| 3-9 years | 156 | 104 | 66 | 27 | 11 | 52 | 23 | 15 | 14 |
| 10 years or more | 284 | 216 | 147 | 47 | 22 | 68 | 49 | 9 | 10 |

Occupational group—last full-time job

White collar:
- Professional, technical, and managerial | 55 | 49 | 34 | 14 | 1 | 6 | 5 | 1 | — |
- Clerical and sales | 152 | 118 | 71 | 31 | 16 | 34 | 16 | 8 | 10 |

Blue collar:
- Processing | 20 | 14 | 11 | 2 | 1 | 6 | 4 | 1 | 1 |
- Machine trades | 55 | 35 | 22 | 9 | 4 | 15 | 11 | 1 | 3 |
- Benchwork | 50 | 35 | 22 | 9 | 4 | 15 | 11 | 1 | 3 |
- Structural work | 38 | 27 | 23 | 1 | 3 | 11 | 6 | 3 | 2 |
- Miscellaneous | 58 | 34 | 23 | 9 | 2 | 14 | 8 | 2 | 2 |
- Service | 54 | 37 | 27 | 7 | 3 | 17 | 10 | 2 | 5 |
- Agriculture, forestry and fishing | — | — | — | — | — | — | — | — | — |

Occupational group—primary

White collar:
- Professional, technical, and managerial | 59 | 52 | 34 | 16 | 2 | 7 | 5 | 1 | 1 |
- Clerical and sales | 154 | 119 | 77 | 26 | 16 | 35 | 20 | 6 | 9 |

Blue collar:
- Processing | 24 | 17 | 13 | 4 | — | 7 | 4 | 1 | 2 |
- Machine trades | 50 | 33 | 22 | 7 | 4 | 17 | 10 | 4 | 3 |
- Benchwork | 46 | 31 | 19 | 8 | 4 | 15 | 11 | 2 | 2 |
- Structural work | 41 | 26 | 21 | 2 | 3 | 15 | 9 | 4 | 2 |
- Miscellaneous | 56 | 31 | 20 | 9 | 2 | 25 | 14 | 8 | 3 |
- Service | 48 | 34 | 25 | 7 | 2 | 14 | 7 | 3 | 4 |
- Agriculture, forestry and fishing | 3 | 3 | 3 | — | — | — | — | — | — |
- Unknown | 1 | 1 | — | 1 | — | — | — | — | — |

Benefit status at enrollment

| 13th certification | 63 | 43 | 27 | 10 | 6 | 20 | 11 | 3 | 6 |
| 14th certification | 59 | 44 | 27 | 15 | 2 | 15 | 8 | 3 | 4 |
| 15th certification | 59 | 43 | 25 | 10 | 8 | 16 | 9 | 4 | 4 |
| 16th certification | 47 | 31 | 22 | 4 | 5 | 16 | 12 | 2 | 2 |
| 17th certification | 70 | 46 | 33 | 12 | 1 | 24 | 14 | 6 | 4 |
| 18th certification | 91 | 75 | 52 | 15 | 8 | 20 | 15 | 4 | 1 |
| 19th certification | 62 | 42 | 29 | 10 | 5 | 20 | 15 | 4 | 1 |
| 20th certification | 31 | 23 | 19 | 4 | — | 8 | 4 | 2 | 2 |

continued
### 1. A. Test Group (continued)

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### Table 1. Characteristics of SPRUCE Enrollees by Initial Employability Rating and Termination Status

#### B. Control Group

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### Table 2. Employment Status at Three Followup Intervals of SPRUCE Test and Control Claimants by Services Received

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Table 2. Employment Status at Three Followup Intervals of SPRUCE Test and Control Claimants by Services Received

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Table 2. Employment Status at Three Followup Intervals of SPRUCE Test and Control Claimants by Services Received

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Number Percent  Number Percent  Number Percent

Employed

Test group  
Employed Total 422 48.6 379 54.4

Not serviced  93 55.5 96 48.0

Job-ready  308 51.6 248 55.8

To work  104 91.3 100 90.0

Other termination  41 39.0 31 45.2

Prior interruption for work  122 53.3 101 63.4

No prior interruption for work  299 46.5 278 51.1

Control group  
Employed Total 508 44.3 479 45.1

Not serviced  283 46.6 270 47.4

Job-ready  373 45.4 343 46.1

To work  104 85.6 102 82.4

Other termination  35 40.0 32 50.0

Prior interruption for work  156 55.8 142 59.9

No prior interruption for work  353 39.2 337 38.9
Table 4. Employment Status at Three Followup Intervals of SPRUCE Claimants Who Received Job-Search Assistance

A. 3-Week Followup

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Table 4. Employment Status at Three Followup Intervals of SPRUCE Claimants Who Received Job-Search Assistance

B. 13-Week Followup

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Table 4. Employment Status at Three Followup Intervals of SPRUCE Claimants Who Received Job-Search Assistance

C. 26-Week Followup

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Table 5. Employment Status of SPRUCE Claimants at Three Followup Intervals by Claimant Characteristics

A. 3-Week Followup

| Characteristics | Test group | | | Control group | | | |
|-----------------|------------|--|--|----------------||--|--|
|                 | Total followup records | Employed | Unemployed | Percent employed | Total followup records | Employed | Unemployed | Percent employed |
| Age             | Total respondents | 457 | 208 | 249 | 45.5 | 519 | 199 | 320 | 38.3 |
|                 | Employability | | | | | | | | |
|                | Job-ready | 330 | 160 | 170 | 48.5 | 375 | 141 | 234 | 37.6 |
|                | Not job-ready | 127 | 49 | 79 | 37.8 | 144 | 58 | 86 | 40.3 |
|                | Unknown | | | | | | | | |
|                | 5 years and over | | | | | | | | |
|                | Under 34 years | 197 | 100 | 97 | 50.8 | 209 | 91 | 118 | 43.5 |
|                | 35-44 years | 92 | 46 | 46 | 50.0 | 106 | 44 | 62 | 41.5 |
|                | 45-54 years | 113 | 46 | 67 | 40.7 | 123 | 44 | 79 | 35.8 |
|                | 55-64 years | 55 | 16 | 39 | 29.1 | 83 | 22 | 61 | 25.5 |
|                | 65 years and over | | | | | | | | |
| Sex            | Male | 219 | 128 | 91 | 58.4 | 268 | 123 | 145 | 45.9 |
|                | Female | 238 | 80 | 158 | 43.6 | 251 | 76 | 175 | 30.3 |
| Education      | 0-7 years | 33 | 14 | 19 | 47.8 | 35 | 16 | 19 | 45.7 |
|                | 8 years | 50 | 16 | 34 | 32.0 | 50 | 22 | 28 | 37.3 |
|                | 9-11 years | 126 | 54 | 72 | 42.9 | 150 | 48 | 102 | 32.0 |
|                | 12 years | 163 | 79 | 84 | 48.5 | 167 | 64 | 103 | 38.3 |
|                | Over 12 years | 95 | 48 | 47 | 50.5 | 108 | 49 | 59 | 45.4 |
| Disadvantaged status | THRD | 40 | 15 | 25 | 37.5 | 42 | 12 | 30 | 26.6 |
|                | Non-THRD | 416 | 192 | 224 | 46.2 | 477 | 187 | 290 | 39.2 |
|                | Unknown | 1 | | | 100.0 | | | | |
| Benefit status at enrollment | 13th certification | 60 | 25 | 35 | 41.7 | 59 | 31 | 28 | 52.5 |
|                | 14th certification | 56 | 29 | 27 | 51.8 | 82 | 35 | 47 | 12.7 |
|                | 15th certification | 56 | 22 | 34 | 39.3 | 48 | 15 | 33 | 31.3 |
|                | 16th certification | 47 | 19 | 28 | 40.4 | 60 | 24 | 44 | 35.3 |
|                | 17th certification | 61 | 34 | 27 | 53.1 | 79 | 26 | 53 | 32.9 |
|                | 18th certification | 38 | 42 | 46 | 47.7 | 86 | 31 | 55 | 36.0 |
|                | 19th certification | 57 | 25 | 32 | 43.9 | 71 | 27 | 44 | 38.0 |
|                | 20th certification | 29 | 12 | 17 | 41.4 | 26 | 10 | 16 | 38.5 |
| Ethnic group   | White | 341 | 158 | 193 | 46.3 | 406 | 156 | 250 | 38.4 |
|                | Negro | 108 | 47 | 61 | 43.5 | 108 | 40 | 68 | 37.0 |
|                | Puerto Rican | 5 | 2 | 3 | 40.0 | 5 | 3 | 2 | 60.0 |
|                | Other | 3 | 1 | 2 | 33.3 | | | | |
| Veteran status | Veteran | 124 | 70 | 54 | 56.5 | 161 | 71 | 90 | 44.1 |
|                | Non-veteran | 333 | 158 | 195 | 41.4 | 350 | 128 | 220 | 35.8 |
| Handicap status | Handicapped | 53 | 18 | 35 | 34.0 | 60 | 16 | 44 | 26.7 |
|                | Not handicapped | 404 | 190 | 214 | 47.0 | 459 | 183 | 276 | 39.9 |
| Family income in 1969 | 80-1800 | 15 | 7 | 8 | 46.7 | 13 | 6 | 7 | 46.2 |
|                | 1801-3600 | 47 | 19 | 28 | 40.4 | 50 | 15 | 35 | 30.0 |
|                | 3601-5400 | 72 | 33 | 39 | 45.8 | 83 | 32 | 51 | 36.6 |
|                | 5401-7200 | 54 | 31 | 23 | 57.4 | 79 | 32 | 47 | 40.3 |
|                | 7201-9000 | 70 | 30 | 40 | 42.9 | 77 | 29 | 48 | 37.7 |
|                | 9001-12000 | 79 | 33 | 46 | 41.8 | 85 | 36 | 49 | 42.4 |
|                | 12001-15000 | 37 | 21 | 16 | 56.8 | 36 | 11 | 25 | 30.6 |
|                | 15001 and over | 30 | 13 | 17 | 43.3 | 36 | 15 | 21 | 41.7 |
|                | Unknown | 59 | 21 | 32 | 39.6 | 60 | 23 | 37 | 38.3 |

continued
5A. 3-Week Followup (continued)

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### Table 5. Employment Status of SPRUCE Claimants at Three Followup Intervals by Claimant Characteristics

#### B. 13-Week Followup

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51
### Table 5. Employment Status of SPRUCE Claimants at Three Followup Intervals by Claimant Characteristics

#### C. 26-Week Followup

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<td>X</td>
<td>136</td>
</tr>
<tr>
<td>Self-employed</td>
<td>X</td>
<td>6</td>
</tr>
<tr>
<td>In armed forces</td>
<td>X</td>
<td>1</td>
</tr>
<tr>
<td>STEP</td>
<td>X</td>
<td>1</td>
</tr>
<tr>
<td>DVR</td>
<td>X</td>
<td>—</td>
</tr>
<tr>
<td>Unknown</td>
<td>X</td>
<td>5</td>
</tr>
</tbody>
</table>

continued
5C. 26-Week Followup (continued)

| Characteristics | Test group | | | Control group | | |
|-----------------|------------|-----------------|-----------------|-----------------|-----------------|
|                 | Total followup records | Employed | Unemployed | Percent employed | Employed | Unemployed | Percent employed |
| Total respondents | 379 | 206 | 173 | 54.4 | 479 | 216 | 263 | 45.1 |
| For those not employed: | | | | | | | |
| Seeking work | X | X | 139 | X | X | X | 228 | X |
| Not seeking work | X | X | 33 | X | X | X | 35 | X |
| Unknown | X | X | 1 | X | X | X | — | X |
| Reason for not seeking work | | | | | | | |
| Starting own business | X | X | — | X | X | X | — | X |
| Health | X | X | 15 | X | X | X | 8 | X |
| Awaiting recall | X | X | 1 | X | X | X | 1 | X |
| In jail | X | X | — | X | X | X | — | X |
| Attending school or training | X | X | 4 | X | X | X | 8 | X |
| Strike | X | X | — | X | X | X | — | X |
| Disinterest | X | X | — | X | X | X | 1 | X |
| Pregnancy | X | X | 4 | X | X | X | 1 | X |
| Withdrawn from labor market | X | X | 6 | X | X | X | 2 | X |
| Left area; deceased | X | X | — | X | X | X | — | X |
| Other | X | X | 2 | X | X | X | — | X |
| Unknown | X | X | 1 | X | X | X | 14 | X |
| Barrier to reemployment (at Followup) | | | | | | | |
| None | X | X | 22 | X | X | X | 32 | X |
| Too old or too young | X | X | 14 | X | X | X | 20 | X |
| Lack of education | X | X | 2 | X | X | X | 2 | X |
| Lack of skill or training | X | X | 3 | X | X | X | 2 | X |
| Lack of experience | X | X | 1 | X | X | X | 4 | X |
| Obsolete skill | X | X | — | X | X | X | — | X |
| Health | X | X | 23 | X | X | X | 11 | X |
| Personal | X | X | 1 | X | X | X | — | X |
| Transportation | X | X | 4 | X | X | X | 2 | X |
| Child care | X | X | 2 | X | X | X | 2 | X |
| Care of other family member | X | X | 1 | X | X | X | 2 | X |
| Conviction record | X | X | — | X | X | X | 1 | X |
| Garnishment | X | X | — | X | X | X | — | X |
| No work available | X | X | 80 | X | X | X | 153 | X |
| Strike | X | X | — | X | X | X | — | X |
| Discharged, unfavorable reference | X | X | 2 | X | X | X | 1 | X |
| Pay being offered too low | X | X | 2 | X | X | X | — | X |
| Available for part-time only | X | X | 4 | X | X | X | 3 | X |
| Unknown | X | X | 12 | X | X | X | 28 | X |
Appendix B

FOLLOWUP FORMS
Dear

As part of a study to improve services to Unemployment Insurance claimants, we are asking for the information indicated below from persons who have recently received benefits. You can help us by completing this form and returning it in the enclosed self-addressed envelope. No postage is needed. Thank you for your cooperation.

Lewis M. Bell, Director

1. You last reported to this Unemployment Insurance Office on ____________.
   Have you had any employment since that date? Yes ____ No ____

2. Are you now employed? Yes ____ No ____
   If YES, please complete:
   Date started to work ____________.
   Name of employer ____________________________
   Have you worked for this employer before? Yes ____ No ____
   Weekly or hourly rate of pay $ _____ Per ____. Hours per week ____

3. If not now employed, are you still seeking work? Yes ____ No ____
   If not seeking work, why? ____________________________

USE YOUR NEW YORK STATE EMPLOYMENT SERVICE
Dear [Name],

Your answers to the following questions are an important part of a continuing effort to improve the services of the Unemployment Insurance program. Please complete this form and return it in the enclosed self-addressed envelope. No postage is needed. Thank you for your cooperation.

Lewis M. Bell, Director

You last reported to this Unemployment Insurance Office on ____________.

1. Are you now employed? Yes ___ No ___. If yes, please complete:

Name of employer ____________________________________________

Title of job __________________________ Date started ________

Weekly or hourly rate of pay $ ______ per ____ . Hours per week ____

How did you get this job? ____________________________________

Have you worked for this employer before? Yes ____ No ____

2. List other jobs you have had since the date you last reported:

<p>|</p>
<table>
<thead>
<tr>
<th>Job Title</th>
<th>Starting Date</th>
<th>Ending Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>__________</td>
<td>____________</td>
<td>__________</td>
</tr>
<tr>
<td>__________</td>
<td>____________</td>
<td>__________</td>
</tr>
<tr>
<td>__________</td>
<td>____________</td>
<td>__________</td>
</tr>
</tbody>
</table>

3. If not now employed:

a. Are you still seeking work? Yes ___ No ___

If not seeking work, why? ____________________________________

b. What do you feel is the reason for your being unemployed at the present time? ____________________________________
<table>
<thead>
<tr>
<th>Field</th>
<th>F1 (3 Week)</th>
<th>F2 (13 Week)</th>
<th>F3 (26 Week)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS#</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FTR DATE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue-date of F-letter (or strike out)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Record obtained?</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Now employed? yes:</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>By a previous employer?</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Occupation changed?</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Hourly rate of pay</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hours of work per week</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source of placement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length of time on job to date (in weeks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other jobs since last report?</td>
<td>yes</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>If not now employed:</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Still seeking work?</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Reason, if not</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barrier to reemployment (code)</td>
<td></td>
<td></td>
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<tr>
<td>If 1b, specify</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

59